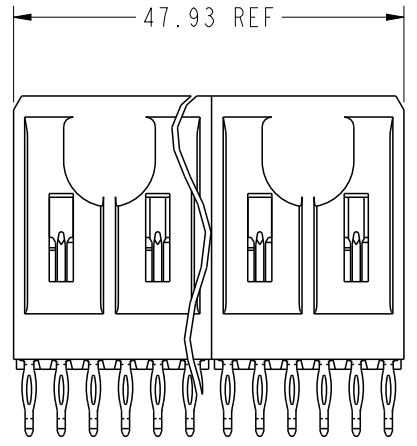
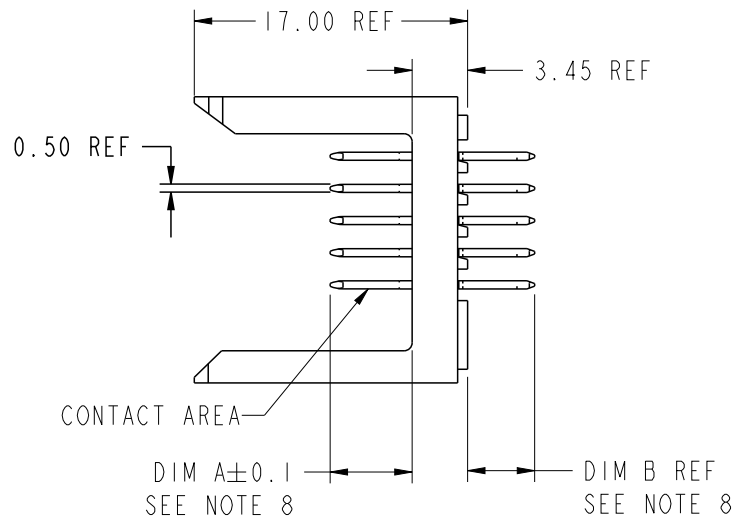
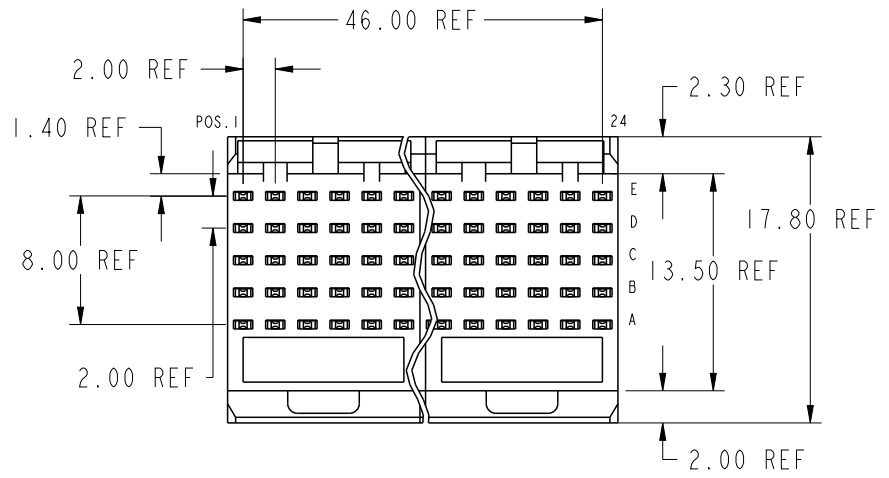




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|                |
|----------------|
| PRODUCT NUMBER |
| 89008-XYX      |
| 89008-XYXLF    |



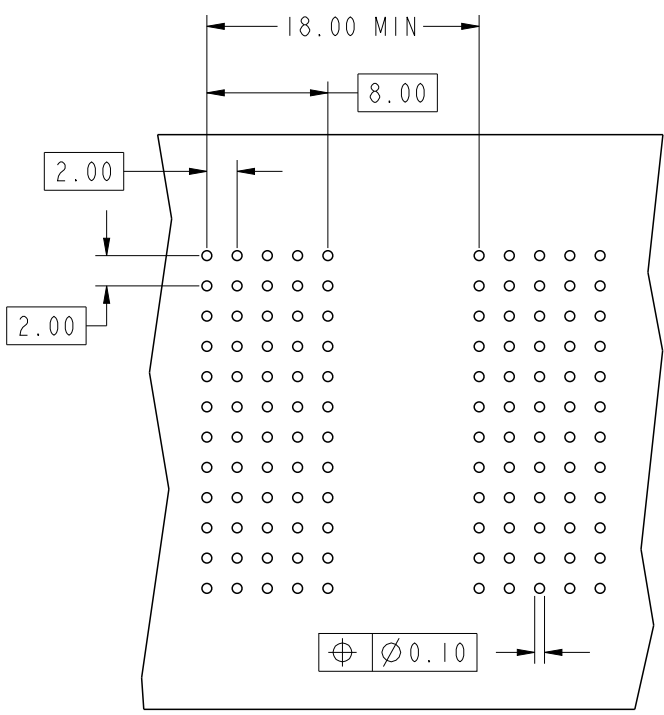
| rev | ecn no         | dr  | date       |
|-----|----------------|-----|------------|
| T   | V06-0573       | DCH | 2006-06-14 |
| U   | DG09-0256      | TER | 2009-08-19 |
| V   | DG-007842      | TAO | 2011-11-09 |
| W   | ELX-DG-15494-1 | AL  | 2013-08-16 |
| -   | -              | -   | -          |
| R   | V04-1100       | DAI | 10/26/05   |
| S   | V05-0667       | TAB | 07/15/05   |

|               |              |                                       |        |      |                |                      |                                   |                           |             |            |               |                |
|---------------|--------------|---------------------------------------|--------|------|----------------|----------------------|-----------------------------------|---------------------------|-------------|------------|---------------|----------------|
| spec ref      |              | *                                     |        | dr   | Terran Huang   | 2010/07/08           | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size        | A4         | scale         | 2:1            |
| tolerance std |              | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |      |                | eng                  |                                   |                           | Andy Lu     | 2013/08/29 | ecn no        | ELX-DG-15494-1 |
| ASME Y14.5    |              |                                       |        |      |                | chr                  |                                   |                           | Sun Richard | 2013/09/02 |               |                |
|               |              |                                       |        | appr | Pei-Ming Zheng | 2013/09/02           | product family                    |                           | METRAL      | rel level  |               | Released       |
| surface       | 3.200 linear | 0.X                                   | ±0.3   |      | title          | METRAL SIGNAL HEADER |                                   |                           |             | dwg no     | 89008         | rev            |
|               |              | 0.XX                                  | ±0.13  |      |                |                      |                                   |                           |             |            |               |                |
|               |              | 0.XXX                                 | ±0.051 |      |                |                      |                                   |                           |             |            |               |                |
| ASME Y14.5    |              | angular                               | 0°     | ±2°  | www.fci.com    | cat. no.             | -                                 | Product - Customer Drw    |             |            | sheet 1 of 15 |                |

PrintE File - REV C - 2009-06-09

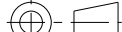


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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

| KEY  |                 |                 |
|------|-----------------|-----------------|
| CODE | DIMENSIONS      |                 |
|      | DIM "A"<br>MATE | DIM "B"<br>TAIL |
| 1    | 5.00            | 4.30            |
| 2    | 5.75            | 4.30            |
| 3    | 6.50            | 4.30            |
| 4    | 7.25            | 4.30            |
| 5    | 5.00            | 13.60           |
| 6    | 5.75            | 13.60           |
| 7    | 6.50            | 13.60           |
| 8    | 7.25            | 13.60           |
| 9    | 5.00            | 17.00           |
| 10   | 5.75            | 17.00           |
| 11   | 6.50            | 17.00           |
| 12   | 7.25            | 17.00           |
| 13   | 8.25            | 4.30            |
| 14   | 8.25            | 13.60           |
| 15   | 8.25            | 17.00           |
| 16   | 7.00            | 4.30            |
| 17   | 7.00            | 13.60           |
| 18   | 7.00            | 17.00           |
| 19   | 8.00            | 4.30            |
| 20   | 8.00            | 13.60           |
| 21   | 8.00            | 17.00           |
| 59   | 5.00            | 11.80           |

|                                    |                                       |                                                                                     |                                                     |                               |  |                                                                                                  |                                                                                          |                      |               |
|------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|--|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------|---------------|
| spec ref *                         |                                       |                                                                                     |                                                     | dr Terran Huang2010/07/08     |  | projection  | mm  | sizeA4               | scale2:1      |
| tolerance std<br>ASME Y14.5        | TOLERANCES UNLESS OTHERWISE SPECIFIED |                                                                                     |                                                     | eng Andy Lu2013/08/29         |  |                                                                                                  |                                                                                          | ecn noELX-DG-15494-1 |               |
|                                    |                                       |                                                                                     |                                                     | chr Sun Richard2013/09/02     |  |                                                                                                  |                                                                                          | rel levelReleased    |               |
|                                    |                                       |                                                                                     |                                                     | appr Pei-Ming Zheng2013/09/02 |  |                                                                                                  |                                                                                          |                      |               |
| surface 3.200 linear<br>ASME Y14.5 |                                       |  | titleMETRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |                               |  |                                                                                                  | dwg no89008                                                                              | revW                 |               |
|                                    |                                       |                                                                                     |                                                     |                               |  |                                                                                                  |                                                                                          |                      | 0.X±0.3       |
|                                    |                                       |                                                                                     |                                                     |                               |  |                                                                                                  |                                                                                          |                      | 0.XX±0.13     |
|                                    |                                       |                                                                                     |                                                     |                               |  |                                                                                                  |                                                                                          |                      | 0.XXX±.051    |
| ASME Y14.5                         | angular                               | 0°±2°                                                                               | www.fci.com                                         | cat. no. -                    |  | Product - Customer Drw                                                                           |                                                                                          |                      | sheet 2 of 15 |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X10<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X11<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X12<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |

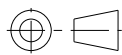
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X13<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X14<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X15<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X16<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X17<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |

|               |  |  |  |            |  |  |  |                                       |  |              |  |            |  |                |  |                                                                                       |  |                |  |                                                                                     |  |            |  |          |  |                |  |                      |  |          |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
|---------------|--|--|--|------------|--|--|--|---------------------------------------|--|--------------|--|------------|--|----------------|--|---------------------------------------------------------------------------------------|--|----------------|--|-------------------------------------------------------------------------------------|--|------------|--|----------|--|----------------|--|----------------------|--|----------|--|------------------------|--|--|--|---------------|--|--|--|-----|--|--|--|---|--|--|--|
| spec ref      |  |  |  | *          |  |  |  | dr                                    |  | Terran Huang |  | 2010/07/08 |  | projection     |  |  |  | mm             |  | size                                                                                |  | A4         |  | scale    |  | 1:1            |  |                      |  |          |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
| tolerance std |  |  |  | ASME Y14.5 |  |  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |              |  | eng        |  | Andy Lu        |  | 2013/08/29                                                                            |  | chr            |  | Sun Richard                                                                         |  | 2013/09/02 |  | ecn no   |  | ELX-DG-15494-1 |  |                      |  |          |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
|               |  |  |  |            |  |  |  |                                       |  |              |  | appr       |  | Pei-Ming Zheng |  | 2013/09/02                                                                            |  | product family |  |                                                                                     |  | METRAL     |  |          |  | rel level      |  |                      |  | Released |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
| surface       |  |  |  | 3.2        |  |  |  | linear                                |  |              |  | 0.X        |  |                |  | ±0.3                                                                                  |  |                |  |  |  |            |  | title    |  |                |  | METRAL SIGNAL HEADER |  |          |  | dwg no                 |  |  |  | 89008         |  |  |  | rev |  |  |  | W |  |  |  |
|               |  |  |  |            |  |  |  |                                       |  |              |  | 0.XX       |  |                |  | ±0.13                                                                                 |  |                |  |                                                                                     |  |            |  |          |  |                |  |                      |  |          |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
|               |  |  |  |            |  |  |  |                                       |  |              |  | 0.XXX      |  |                |  | ±.051                                                                                 |  |                |  |                                                                                     |  |            |  |          |  |                |  |                      |  |          |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
| ASME Y14.5    |  |  |  |            |  |  |  | angular                               |  |              |  | 0°         |  |                |  | ±2°                                                                                   |  |                |  | www.fci.com                                                                         |  |            |  | cat. no. |  |                |  | -                    |  |          |  | Product - Customer Drw |  |  |  | sheet 3 of 15 |  |  |  |     |  |  |  |   |  |  |  |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X19<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4 | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 4                      | 4 | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 4                      | 4 | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                      | 4 | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 4                      | 4 | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X20<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 5                      | 5 | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X21<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X22<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X23<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X24<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X25<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X26<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

|               |              |       |                |             |                |                      |            |        |                        |          |     |               |     |   |
|---------------|--------------|-------|----------------|-------------|----------------|----------------------|------------|--------|------------------------|----------|-----|---------------|-----|---|
| spec ref      | *            | dr    | Terran Huang   | 2010/07/08  | projection     |                      | mm         | size   | A4                     | scale    | 1:1 |               |     |   |
| tolerance std | ASME Y14.5   | eng   | Andy Lu        | 2013/08/29  | chr            | Sun Richard          | 2013/09/02 | ecn no | ELX-DG-15494-1         |          |     |               |     |   |
|               |              | appr  | Pei-Ming Zheng | 2013/09/02  | product family | METRAL               |            |        | rel level              | Released |     |               |     |   |
| surface       | 3.200 linear | 0.X   | ±0.3           |             | title          | METRAL SIGNAL HEADER |            |        | dwg no                 | 89008    |     |               | rev | W |
|               | 0.XX         | ±0.13 |                |             |                |                      |            |        |                        |          |     |               |     |   |
|               | 0.XXX        | ±.051 |                |             |                |                      |            |        |                        |          |     |               |     |   |
| ASME Y14.5    | angular      | 0°    | ±2°            | www.fci.com | cat. no.       | -                    |            |        | Product - Customer Drw |          |     | sheet 4 of 15 |     |   |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X27<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X29<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X30<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | D   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | C   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 9                      | 9 | 9 | 9 | 9 | 9      | 9 | 9 | 9 | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17     | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X31<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X32<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 11                     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 11                     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 9                      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 9                      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X33<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 21                     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|                                                 | C   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                 | A   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X34<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                     | D   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                     | C   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                     | B   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                     | A   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X35<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | D   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | C   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

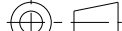
|               |  |                |  |                                       |  |                        |  |            |  |            |  |                      |  |        |  |                |  |           |  |          |  |               |  |
|---------------|--|----------------|--|---------------------------------------|--|------------------------|--|------------|--|------------|--|----------------------|--|--------|--|----------------|--|-----------|--|----------|--|---------------|--|
| spec ref      |  | *              |  | dr                                    |  | Terran Huang           |  | 2010/07/08 |  | projection |  |                      |  | mm     |  | size           |  | A4        |  | scale    |  | 1:1           |  |
| tolerance std |  | ASME Y14.5     |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng                    |  | Andy Lu    |  | 2013/08/29 |  |                      |  | ecn no |  | ELX-DG-15494-1 |  | rel level |  | Released |  |               |  |
| chr           |  | Sun Richard    |  | 2013/09/02                            |  |                        |  |            |  |            |  |                      |  |        |  |                |  |           |  |          |  |               |  |
| appr          |  | Pei-Ming Zheng |  | 2013/09/02                            |  | product family         |  | METRAL     |  |            |  |                      |  |        |  |                |  |           |  |          |  |               |  |
| surface       |  | 3.200 linear   |  | 0.X                                   |  | ±0.3                   |  |            |  | title      |  | METRAL SIGNAL HEADER |  | dwg no |  | 89008          |  | rev       |  | W        |  |               |  |
| ASME Y14.5    |  | angular        |  | 0°                                    |  | ±2°                    |  |            |  |            |  |                      |  |        |  |                |  |           |  |          |  |               |  |
| www.fci.com   |  | cat. no.       |  | -                                     |  | Product - Customer Drw |  |            |  |            |  |                      |  |        |  |                |  |           |  |          |  | sheet 5 of 15 |  |

B

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D

[illegible][illegible]

|                                                                                                                                                 |                                       |       |       |                                                                                                |                                                         |            |                                                                                                                        |                                                                                                                |        |                |          |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------|-------|------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------|----------------|----------|----------------|
| spec ref                                                                                                                                        |                                       | *     |       | dr                                                                                             | Terran Huang                                            | 2010/07/08 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size   | A4             | scale    | 1:1            |
| tolerance std<br>ASME Y14.5                                                                                                                     | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |       | eng                                                                                            | Andy Lu                                                 | 2013/08/29 |                                                                                                                        |                                                                                                                | ecn no | ELX-DG-15494-1 |          |                |
|                                                                                                                                                 |                                       |       |       | chr                                                                                            | Sun Richard                                             | 2013/09/02 |                                                                                                                        |                                                                                                                |        |                |          |                |
|                                                                                                                                                 |                                       |       |       | appr                                                                                           | Pei-Ming Zheng                                          | 2013/09/02 |                                                                                                                        |                                                                                                                |        |                |          | product family |
| surface <div><div>3.200</div><div></div></div><br>ASME Y14.5 | linear                                | 0.X   | ±0.3  | <div></div> | title<br>METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |            |                                                                                                                        | dwg no                                                                                                         | 89008  |                | rev<br>W |                |
|                                                                                                                                                 |                                       | 0.XX  | ±0.13 |                                                                                                |                                                         |            |                                                                                                                        |                                                                                                                |        |                |          |                |
|                                                                                                                                                 |                                       | 0.XXX | ±.051 |                                                                                                |                                                         |            |                                                                                                                        |                                                                                                                |        |                |          |                |
|                                                                                                                                                 | angular                               | 0°    | ±2°   | www.fci.com                                                                                    | cat. no.                                                |            | -                                                                                                                      | Product - Customer Drw                                                                                         |        | sheet 6 of 15  |          |                |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X45<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X46<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 4                      | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X47<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |

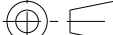
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X48<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | D   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | B   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X49<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X50<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X51<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X52<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |

|               |  |  |  |              |  |  |  |                                       |  |              |  |            |  |            |  |                                                                                       |  |                                                                                       |  |            |  |                |  |                      |  |           |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
|---------------|--|--|--|--------------|--|--|--|---------------------------------------|--|--------------|--|------------|--|------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------|--|----------------|--|----------------------|--|-----------|--|------------------------|--|--|--|---------------|--|--|--|-----|--|--|--|---|--|--|--|
| spec ref      |  |  |  | *            |  |  |  | dr                                    |  | Terran Huang |  | 2010/07/08 |  | projection |  |  |  | mm                                                                                    |  | size       |  | A4             |  | scale                |  | 1:1       |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
| tolerance std |  |  |  | ASME Y14.5   |  |  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |              |  | eng        |  | Andy Lu    |  | 2013/08/29                                                                            |  |  |  | ecn no     |  | ELX-DG-15494-1 |  |                      |  |           |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
|               |  |  |  |              |  |  |  | chr                                   |  | Sun Richard  |  | 2013/09/02 |  | appr       |  | Pei-Ming Zheng                                                                        |  |                                                                                       |  | 2013/09/02 |  | product family |  | METRAL               |  | rel level |  | Released               |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
| surface       |  |  |  | 3.200 linear |  |  |  | 0.X                                   |  |              |  | ±0.3       |  |            |  |    |  |                                                                                       |  | title      |  |                |  | METRAL SIGNAL HEADER |  |           |  | dwg no                 |  |  |  | 89008         |  |  |  | rev |  |  |  | W |  |  |  |
|               |  |  |  |              |  |  |  | 0.XX                                  |  |              |  | ±0.13      |  |            |  |                                                                                       |  |                                                                                       |  |            |  |                |  |                      |  |           |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
|               |  |  |  |              |  |  |  | 0.XXX                                 |  |              |  | ±.051      |  |            |  |                                                                                       |  |                                                                                       |  |            |  |                |  |                      |  |           |  |                        |  |  |  |               |  |  |  |     |  |  |  |   |  |  |  |
| ASME Y14.5    |  |  |  | angular      |  |  |  | 0°                                    |  |              |  | ±2°        |  |            |  | www.fci.com                                                                           |  |                                                                                       |  | cat. no.   |  |                |  | -                    |  |           |  | Product - Customer Drw |  |  |  | sheet 7 of 15 |  |  |  |     |  |  |  |   |  |  |  |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X53<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X54<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X55<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 5                      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | A   | 5                      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |

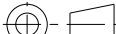
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X56<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X57<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X58<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | D   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | B   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | A   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

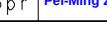
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X59<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X60<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                 | C   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                 | B   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                 | A   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |

|               |  |              |  |            |  |      |  |                                                                                     |  |                |  |                      |  |                        |  |                                                                                       |  |                                                                                       |  |               |  |                |  |       |  |     |  |   |  |
|---------------|--|--------------|--|------------|--|------|--|-------------------------------------------------------------------------------------|--|----------------|--|----------------------|--|------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------|--|----------------|--|-------|--|-----|--|---|--|
| spec ref      |  |              |  | *          |  |      |  | dr                                                                                  |  | Terran Huang   |  | 2010/07/08           |  | projection             |  |  |  | mm                                                                                    |  | size          |  | A4             |  | scale |  | 1:1 |  |   |  |
| tolerance std |  |              |  | ASME Y14.5 |  |      |  | TOLERANCES UNLESS OTHERWISE SPECIFIED                                               |  |                |  | eng                  |  | Andy Lu                |  | 2013/08/29                                                                            |  |  |  | ecn no        |  | ELX-DG-15494-1 |  |       |  |     |  |   |  |
|               |  |              |  |            |  |      |  | chr                                                                                 |  | Sun Richard    |  | 2013/09/02           |  |                        |  | rel level                                                                             |  |                                                                                       |  | Released      |  |                |  |       |  |     |  |   |  |
|               |  |              |  |            |  |      |  | appr                                                                                |  | Pei-Ming Zheng |  | 2013/09/02           |  | product family         |  | METRAL                                                                                |  |                                                                                       |  |               |  |                |  |       |  |     |  |   |  |
| surface       |  | 3.200 linear |  | 0.X        |  | ±0.3 |  |  |  | title          |  | METRAL SIGNAL HEADER |  |                        |  |                                                                                       |  | dwg no                                                                                |  | 89008         |  |                |  |       |  | rev |  | W |  |
|               |  | 0.XX         |  | ±0.13      |  |      |  |                                                                                     |  |                |  |                      |  |                        |  |                                                                                       |  |                                                                                       |  |               |  |                |  |       |  |     |  |   |  |
|               |  | 0.XXX        |  | ±.051      |  |      |  |                                                                                     |  |                |  |                      |  |                        |  |                                                                                       |  |                                                                                       |  |               |  |                |  |       |  |     |  |   |  |
| ASME Y14.5    |  | angular      |  | 0°         |  | ±2°  |  | www.fci.com                                                                         |  | cat. no.       |  | -                    |  | Product - Customer Drw |  |                                                                                       |  |                                                                                       |  | sheet 8 of 15 |  |                |  |       |  |     |  |   |  |

[illegible][illegible][illegible]

| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X68<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 21                     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 |
|                                                     | D   | 21                     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 |
|                                                     | C   | 21                     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 |
|                                                     | B   | 21                     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 |
|                                                     | A   | 21                     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 |

|               |  |                                       |  |                |  |              |  |                                                                                     |  |                                                                                       |  |                                                                                       |  |                        |  |                |  |       |  |     |  |
|---------------|--|---------------------------------------|--|----------------|--|--------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------|--|----------------|--|-------|--|-----|--|
| spec ref      |  | *                                     |  | dr             |  | Terran Huang |  | 2010/07/08                                                                          |  | projection                                                                            |  | mm                                                                                    |  | size                   |  | A4             |  | scale |  | 1:1 |  |
| tolerance std |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng            |  | Andy Lu      |  | 2013/08/29                                                                          |  |  |  |  |  | ecn no                 |  | ELX-DG-15494-1 |  |       |  |     |  |
| chr           |  |                                       |  | Sun Richard    |  | 2013/09/02   |  | rel level                                                                           |  |                                                                                       |  |                                                                                       |  | Released               |  |                |  |       |  |     |  |
| appr          |  |                                       |  | Pei-Ming Zheng |  | 2013/09/02   |  | product family                                                                      |  |                                                                                       |  |                                                                                       |  | METRAL                 |  |                |  |       |  |     |  |
| ASME Y14.5    |  |                                       |  |                |  |              |  |                                                                                     |  |                                                                                       |  |                                                                                       |  |                        |  |                |  |       |  |     |  |
| surface       |  | 3.200 linear                          |  | 0.X            |  | ±0.3         |  |  |  | title                                                                                 |  | METRAL SIGNAL HEADER                                                                  |  | dwg no                 |  | 89008          |  | rev   |  | W   |  |
|               |  | 0.XX                                  |  | ±0.13          |  |              |  |                                                                                     |  |                                                                                       |  |                                                                                       |  |                        |  |                |  |       |  |     |  |
|               |  | 0.XXX                                 |  | ±.051          |  |              |  |                                                                                     |  |                                                                                       |  |                                                                                       |  |                        |  |                |  |       |  |     |  |
| ASME Y14.5    |  | angular                               |  | 0°             |  | ±2°          |  | www.fci.com                                                                         |  | cat. no.                                                                              |  | -                                                                                     |  | Product - Customer Drw |  | sheet 9 of 15  |  |       |  |     |  |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X69<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                 | A   | 21                     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X70<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X71<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |

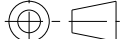
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X72<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | D   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X73<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X74<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                 | D   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X75<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 2                      | 2 | 2 | 2 | 2 | 2      | 2 | 2 | 2 | 2  | 2      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 3                      | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3 | 3  | 3      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17     | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X76<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                      | 1 | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 4                      | 4 | 4 | 4 | 4 | 4 | 4      | 4 | 4 | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  | 4  |

|                                                                                                                                  |                                       |         |           |                                                                                     |                                                         |            |                                                                                                     |                                                                                          |                |                |                |           |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------|
| spec ref                                                                                                                         |                                       | *       |           | dr                                                                                  | Terran Huang                                            | 2010/07/08 | projection<br> |  mm | size           | A4             | scale          | 1:1       |
| tolerance std<br><br>ASME Y14.5                                                                                                  | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |           | eng                                                                                 | Andy Lu                                                 | 2013/08/29 |                                                                                                     |                                                                                          | ecn no         | ELX-DG-15494-1 |                |           |
|                                                                                                                                  |                                       |         |           | chr                                                                                 | Sun Richard                                             | 2013/09/02 |                                                                                                     |                                                                                          |                |                |                |           |
|                                                                                                                                  |                                       |         |           | appr                                                                                | Pei-Ming Zheng                                          | 2013/09/02 |                                                                                                     |                                                                                          | product family |                | METRAL         | rel level |
| surface<br>3.200 linear<br><br><br>ASME Y14.5 |                                       | 0.X     | ±0.3      |  | title<br>METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |            |                                                                                                     | dwg no                                                                                   | 89008          |                | rev<br><br>W   |           |
|                                                                                                                                  |                                       | 0.XX    | ±0.13     |                                                                                     |                                                         |            |                                                                                                     |                                                                                          |                |                |                |           |
|                                                                                                                                  |                                       | 0.XXX   | ±.051     |                                                                                     |                                                         |            |                                                                                                     |                                                                                          |                |                |                |           |
| ASME Y14.5                                                                                                                       |                                       | angular | 0°<br>±2° | www.fci.com                                                                         | cat. no.                                                |            | -                                                                                                   | Product - Customer Drw                                                                   |                |                | sheet 10 of 15 |           |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X77<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X78<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                 | D   | 16                     | 16 | 16 | 16 | 16 | 16     | 16 | 16 | 16 | 16 | 16 | 16     | 16 | 16 | 16 | 16 | 16 | 16     | 16 | 16 | 16 | 16 | 16 | 16 |
|                                                 | C   | 2                      | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2      | 2  | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 16                     | 16 | 16 | 16 | 16 | 16     | 16 | 16 | 16 | 16 | 16 | 16     | 16 | 16 | 16 | 16 | 16 | 16     | 16 | 16 | 16 | 16 | 16 | 16 |
|                                                 | A   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X79<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 3                      | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 19                     | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19     | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 4                      | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4      | 4  | 4  | 4  | 4  | 4  | 4  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X80<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 7                      | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7 | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X81<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | A   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X82<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | D   | 5                      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X83<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 14                     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X84<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 14                     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
|                                                 | D   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 14                     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |

|                                 |                                       |       |       |             |                                                         |            |                |                        |            |                |                |              |
|---------------------------------|---------------------------------------|-------|-------|-------------|---------------------------------------------------------|------------|----------------|------------------------|------------|----------------|----------------|--------------|
| spec ref                        |                                       | *     |       | dr          | Terran Huang                                            | 2010/07/08 | projection<br> | mm                     | size       | A4             | scale          | 1:1          |
| tolerance std<br><br>ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED |       |       | eng         | Andy Lu                                                 | 2013/08/29 |                |                        | ecn no     | ELX-DG-15494-1 |                |              |
|                                 |                                       |       |       | chr         | Sun Richard                                             | 2013/09/02 |                |                        |            |                |                |              |
|                                 |                                       |       |       |             |                                                         |            | appr           | Pei-Ming Zheng         | 2013/09/02 | product family |                | METRAL       |
| surface<br>3.200 linear         |                                       | 0.X   | ±0.3  |             | title<br>METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |            |                |                        | dwg no     | 89008          |                | rev<br><br>W |
|                                 |                                       | 0.XX  | ±0.13 |             |                                                         |            |                |                        |            |                |                |              |
|                                 |                                       | 0.XXX | ±.051 |             |                                                         |            |                |                        |            |                |                |              |
| ASME Y14.5                      | angular                               | 0°    | ±2°   | www.fci.com | cat. no.                                                |            | -              | Product - Customer Drw |            |                | sheet 11 of 15 |              |



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| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   |   | MOD. 2 |   |   |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|---|--------|---|---|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6 | 7      | 8 | 9 | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X85<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 6                      | 6 | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 7                      | 7 | 7 | 7 | 7 | 7 | 7      | 7 | 7 | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X86<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 8                      | 8 | 8 | 8 | 8 | 8      | 8 | 8 | 8 | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X87<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 20                     | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 8                      | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 7                      | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7  |

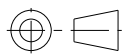
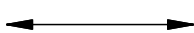
| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X88<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 14                     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14 |
|                                                 | D   | 17                     | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17 |
|                                                 | C   | 6                      | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6      | 6  | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 17                     | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17 |
|                                                 | A   | 14                     | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14     | 14 | 14 | 14 | 14 | 14 | 14 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6  | 7      | 8  | 9  | 10 | 11 | 12 | 13     | 14 | 15 | 16 | 17 | 18 | 19     | 20 | 21 | 22 | 23 | 24 |
| 89008-X89<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 7                      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  | 7      | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 8                      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  | 8      | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 17                     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 | 17     | 17 | 17 | 17 | 17 | 17 |
|                                                 | A   | 20                     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 | 20     | 20 | 20 | 20 | 20 | 20 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X90<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                 | C   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |
|                                                 | A   | 10                     | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10     | 10 | 10 | 10 | 10 | 10 | 10 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    |    | MOD. 3 |    |    |    |    |    | MOD. 4 |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|--------|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11 | 12     | 13 | 14 | 15 | 16 | 17 | 18     | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X91<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                 | D   | 21                     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 |
|                                                 | C   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 21                     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 |
|                                                 | A   | 11                     | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11     | 11 | 11 | 11 | 11 | 11 | 11 |

| METRAL<br>P/N                                   | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                 |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 89008-X92<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 21                     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
|                                                 | D   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | C   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 21                     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21     | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |

|               |  |  |  |              |  |  |  |                                       |  |                |  |            |  |                |  |                                                                                       |  |                                                                                       |  |           |  |                |  |                      |  |          |  |                        |  |  |  |                |  |  |  |     |  |  |  |
|---------------|--|--|--|--------------|--|--|--|---------------------------------------|--|----------------|--|------------|--|----------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|-----------|--|----------------|--|----------------------|--|----------|--|------------------------|--|--|--|----------------|--|--|--|-----|--|--|--|
| spec ref      |  |  |  | *            |  |  |  | dr                                    |  | Terran Huang   |  | 2010/07/08 |  | projection     |  |  |  | mm                                                                                    |  | size      |  | A4             |  | scale                |  | 1:1      |  |                        |  |  |  |                |  |  |  |     |  |  |  |
| tolerance std |  |  |  | ASME Y14.5   |  |  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |                |  | eng        |  | Andy Lu        |  | 2013/08/29                                                                            |  |  |  | ecn no    |  | ELX-DG-15494-1 |  |                      |  |          |  |                        |  |  |  |                |  |  |  |     |  |  |  |
|               |  |  |  |              |  |  |  | chr                                   |  | Sun Richard    |  | 2013/09/02 |  |                |  |                                                                                       |  |                                                                                       |  |           |  |                |  |                      |  |          |  |                        |  |  |  |                |  |  |  |     |  |  |  |
|               |  |  |  |              |  |  |  | appr                                  |  | Pei-Ming Zheng |  | 2013/09/02 |  | product family |  | METRAL                                                                                |  |                                                                                       |  | rel level |  |                |  |                      |  | Released |  |                        |  |  |  |                |  |  |  |     |  |  |  |
| surface       |  |  |  | 3.200 linear |  |  |  | 0.X                                   |  |                |  | ±0.3       |  |                |  |    |  |                                                                                       |  | title     |  |                |  | METRAL SIGNAL HEADER |  |          |  | dwg no                 |  |  |  | 89008          |  |  |  | rev |  |  |  |
|               |  |  |  |              |  |  |  | 0.XX                                  |  |                |  | ±0.13      |  |                |  |                                                                                       |  |                                                                                       |  |           |  |                |  |                      |  |          |  |                        |  |  |  |                |  |  |  |     |  |  |  |
|               |  |  |  |              |  |  |  | 0.XXX                                 |  |                |  | ±.051      |  |                |  |                                                                                       |  |                                                                                       |  |           |  |                |  |                      |  |          |  |                        |  |  |  |                |  |  |  |     |  |  |  |
| ASME Y14.5    |  |  |  | angular      |  |  |  | 0°                                    |  |                |  | ±2°        |  |                |  | www.fci.com                                                                           |  |                                                                                       |  | cat. no.  |  |                |  | -                    |  |          |  | Product - Customer Drw |  |  |  | sheet 12 of 15 |  |  |  |     |  |  |  |

[illegible][illegible][illegible][illegible]

|               |  |              |  |                                       |  |              |  |                |  |            |  |             |  |          |  |                      |  |                        |  |           |  |          |  |     |  |   |  |   |  |                        |  |                |  |
|---------------|--|--------------|--|---------------------------------------|--|--------------|--|----------------|--|------------|--|-------------|--|----------|--|----------------------|--|------------------------|--|-----------|--|----------|--|-----|--|---|--|---|--|------------------------|--|----------------|--|
| spec ref      |  | *            |  | dr                                    |  | Terran Huang |  | 2010/07/08     |  | projection |  |             |  | size     |  | A4                   |  | scale                  |  | 1:1       |  |          |  |     |  |   |  |   |  |                        |  |                |  |
| tolerance std |  | ASME Y14.5   |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  | eng          |  | Andy Lu        |  | 2013/08/29 |  |             |  |          |  | ecn no               |  | ELX-DG-15494-1         |  |           |  |          |  |     |  |   |  |   |  |                        |  |                |  |
| chr           |  | Sun Richard  |  | 2013/09/02                            |  | appr         |  | Pei-Ming Zheng |  | 2013/09/02 |  |             |  |          |  | product family       |  | METRAL                 |  | rel level |  | Released |  |     |  |   |  |   |  |                        |  |                |  |
| surface       |  | 3/200 linear |  | 0.X                                   |  | ±0.3         |  |                |  | title      |  |             |  |          |  | METRAL SIGNAL HEADER |  | 4 MOD, 5 ROW PRESS-FIT |  | dwg no    |  | 89008    |  | rev |  | W |  |   |  |                        |  |                |  |
| ASME Y14.5    |  | angular      |  | 0°                                    |  | ±2°          |  |                |  |            |  | www.fci.com |  | cat. no. |  |                      |  |                        |  |           |  |          |  |     |  |   |  | - |  | Product - Customer Drw |  | sheet 13 of 15 |  |

| METRAL<br>P/N                                        | ROW | CONTACT CODE<br>MOD. 1 |   |   |   |   | MOD. 2 |   |   |   |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |
|------------------------------------------------------|-----|------------------------|---|---|---|---|--------|---|---|---|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|
|                                                      |     | 1                      | 2 | 3 | 4 | 5 | 6      | 7 | 8 | 9 | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 89008-X101<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 7  | 6  | 6  | 6  | 6  | 6  |
|                                                      | D   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 7  | 6  | 6  | 6  | 6  | 6  |
|                                                      | C   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 7  | 6  | 6  | 6  | 6  | 6  |
|                                                      | B   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 7  | 6  | 6  | 6  | 6  | 6  |
|                                                      | A   | 6                      | 6 | 6 | 6 | 6 | 6      | 6 | 6 | 6 | 6  | 6      | 6  | 6  | 6  | 6  | 6      | 6  | 7  | 6  | 6  | 6  | 6  | 6  |



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|-----------------------------|---------------------------------------|-----------------|-------|------------|------------------------------------------------------|-----------------------------------|---------------------------|------------|-----------------------|-------|--------|----------|-------------|
| spec ref *                  |                                       | dr Terran Huang |       | 2010/07/08 |                                                      | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size       | A4                    | scale | 1:1    |          |             |
| tolerance std<br>ASME Y14.5 | TOLERANCES UNLESS OTHERWISE SPECIFIED |                 |       | eng        | Andy Lu                                              |                                   |                           | 2013/08/29 | ecn no ELX-DG-15494-1 |       |        |          |             |
|                             |                                       |                 |       | chr        | Sun Richard                                          |                                   |                           | 2013/09/02 | rel level Released    |       |        |          |             |
|                             |                                       |                 |       | appr       | Pei-Ming Zheng                                       |                                   |                           | 2013/09/02 | product family        |       | METRAL |          |             |
| surface 3.200 linear        | ASME Y14.5                            | 0.X             | ±0.3  |            | title METRAL SIGNAL HEADER<br>4 MOD, 5 ROW PRESS-FIT |                                   |                           |            | dwg no                | 89008 |        | rev<br>W |             |
|                             |                                       | 0.XX            | ±0.13 |            |                                                      |                                   |                           |            |                       |       |        |          |             |
|                             |                                       | 0.XXX           | ±.051 |            |                                                      |                                   |                           |            |                       |       |        |          |             |
|                             | angular                               | 0°              | ±2°   |            |                                                      |                                   |                           |            |                       |       |        |          | www.fci.com |



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# PRODUCT NUMBER

89008-XXX

89008-XXYLF

## NOTES:

1. FOR DIM A AND B SEE SHEET 2 AND UP.

2. BODY MATERIAL: LIQUID CRYSTAL

POLYMER 30 % GLASS.

FLAME RETARDANT ACC. UL 94-V0.

3. PIN MATERIAL:

PHOSPHOR BRONZE.

4. PLATING ON PRESS-FIT TAIL:

73931-XXX IS SnPb

73931-XXYLF IS SN (LEAD FREE)

PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.

5. PRODUCT MARKING:

PART NUMBER DESIGNATION & BATCH I.D.

6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP

7. PRODUCT SPECIFICATION GS-12-180

APPLICATION SPECIFICATION BUS-20-073

8. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.

9. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING (DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1--- AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

10. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 89008-X0ILF

11. -AYY PLATING HAS Au FLASH IN PRESS-FIT AREA (LEAD FREE).

## PLATING IN CONTACT AREA

| DASH NUMBER | PERFORMANCE LEVEL                 | NOTES       |
|-------------|-----------------------------------|-------------|
| -AYY        | TELCORDIA CO                      | SEE NOTE 11 |
| -N1YY       | TELCORDIA CO (NXT)                | -           |
| -N5YY       | TELCORDIA UE (NXT)                | -           |
| -1YY        | TELCORDIA CO                      | -           |
| -2YY        | TELECOM CLASS                     | -           |
| -3YY        | IEC CLASS I                       | -           |
| -5YY        | TELCORDIA UE                      | -           |
| -N1YYLF     | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 9  |
| -N5YYLF     | TELCORDIA UE (NXT)                | SEE NOTE 9  |
| -1YYLF      | TELCORDIA CO<br>IEC CLASS I       | SEE NOTE 9  |
| -2YYLF      | TELECOM CLASS                     | SEE NOTE 9  |
| -5YYLF      | TELCORDIA UE                      | SEE NOTE 9  |

|               |                                       |         |        |       |                |            |                                   |                           |        |                |        |                |                |        |     |           |
|---------------|---------------------------------------|---------|--------|-------|----------------|------------|-----------------------------------|---------------------------|--------|----------------|--------|----------------|----------------|--------|-----|-----------|
| spec ref      |                                       | *       |        | dr    | Terran Huang   | 2010/07/08 | <div>projection</div> <div></div> | <div>mm</div> <div></div> | size   | A4             | scale  | 1:1            |                |        |     |           |
| tolerance std | TOLERANCES UNLESS OTHERWISE SPECIFIED |         |        | eng   | Andy Lu        | 2013/08/29 |                                   |                           | ecn no | ELX-DG-15494-1 |        |                |                |        |     |           |
|               |                                       |         |        | chr   | Sun Richard    | 2013/09/02 |                                   |                           |        |                |        |                |                |        |     |           |
|               |                                       |         |        | appr  | Pei-Ming Zheng | 2013/09/02 |                                   |                           |        |                |        |                | product family | METRAL |     | rel level |
| surface       |                                       |         | linear | 0.X   | ±0.3           |            | title                             |                           |        |                | dwg no |                | 89008          |        | rev | W         |
|               |                                       |         | 0.XX   | ±0.13 |                |            |                                   |                           |        |                |        |                |                |        |     |           |
|               |                                       |         | 0.XXX  | ±.051 |                |            |                                   |                           |        |                |        |                |                |        |     |           |
| ASME Y14.5    |                                       | angular | 0°     | ±2°   | www.fci.com    | cat. no.   | -                                 | Product - Customer Drw    |        |                |        | sheet 15 of 15 |                |        |     |           |

PrintE File - REV C - 2009-06-09

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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