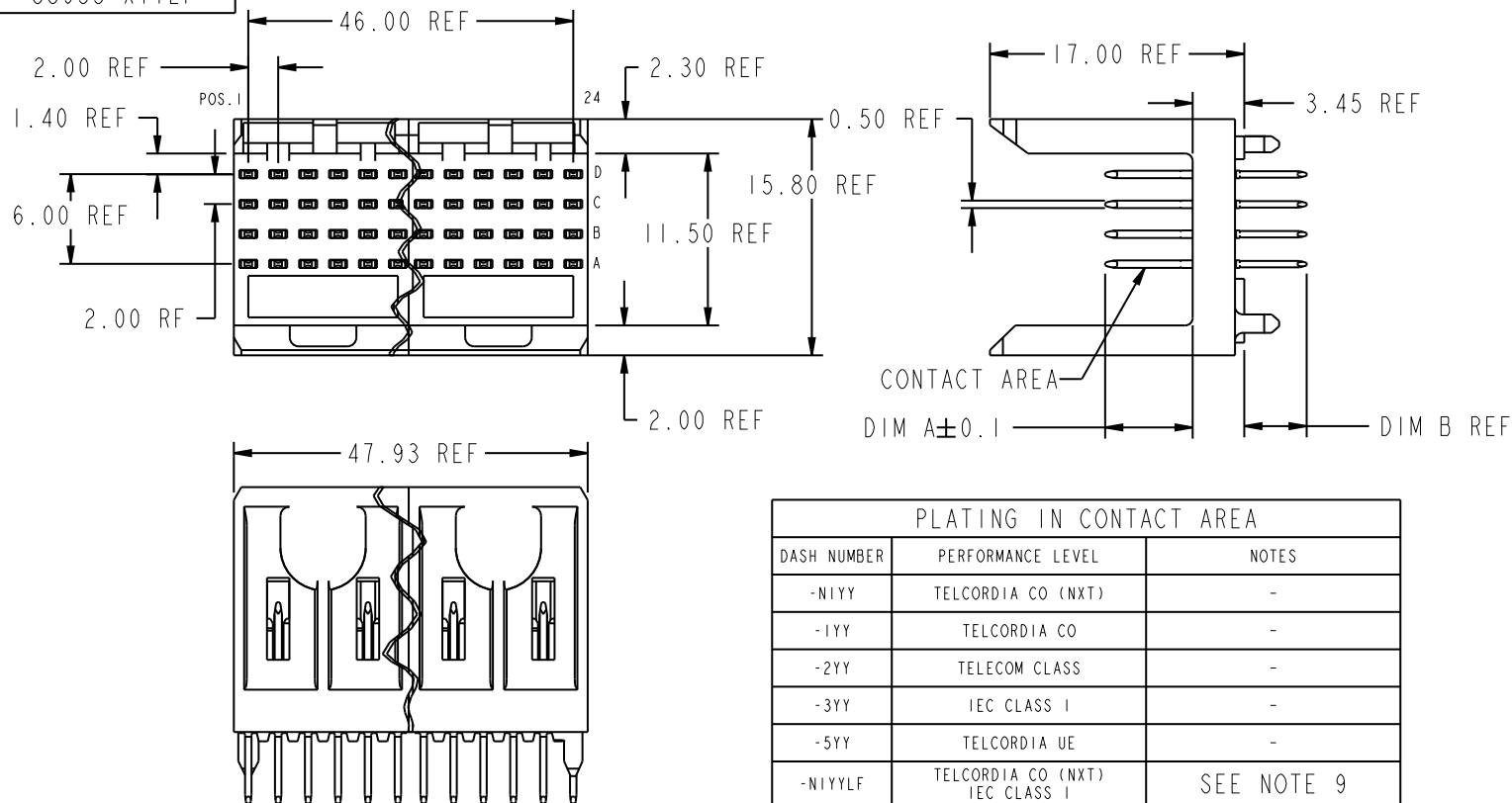




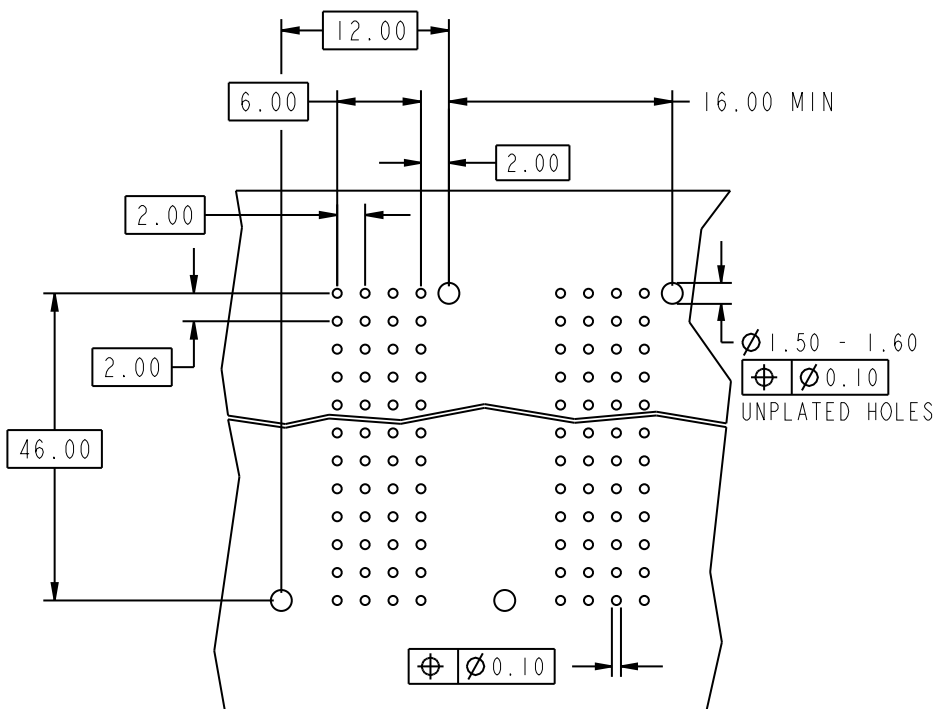
PRODUCT NUMBER  
88953-XY  
88953-XYLF



| mat'l code |           |     |            | tolerances unless otherwise specified |                  |                 |                   | CUSTOMER |            | FCI                  |  |
|------------|-----------|-----|------------|---------------------------------------|------------------|-----------------|-------------------|----------|------------|----------------------|--|
| ltr        | ecr no.   | dr  | date       | linear                                | 0.X $\pm 0.3$    | 0.XX $\pm 0.13$ | 0.XXX $\pm 0.051$ | COPY     | projection | www.fciconnect.com   |  |
| U          | V06-0569  | DCH | 2006-06-13 | linear                                |                  |                 |                   |          |            | title                |  |
| V          | DG09-0256 | TER | 2009-08-19 | linear                                |                  |                 |                   |          |            | METRAL SIGNAL HEADER |  |
| -          | -         | -   | -          | angles                                | 0° $\pm 2^\circ$ |                 |                   |          |            | 4 MOD, 4 ROW STB     |  |
| P          | V03-1059  | DAI | 09/24/03   | dr                                    | T.BRUNGARD       | 11/19/99        |                   |          |            | product family       |  |
| R          | V05-0385  | DAI | 04/22/05   | enrg                                  | M.STRAWER        | 11/19/99        |                   |          |            | METRAL               |  |
| S          | V05-0796  | DAI | 08/19/05   | chr                                   | M.STRAWER        | 11/19/99        |                   |          |            | code                 |  |
| T          | V06-0123  | DAI | 02/09/06   | appd                                  | M.STRAWER        | 02/29/00        |                   |          |            | 213                  |  |
| sheet      |           |     |            | revision                              | V                | V               | V                 | V        | V          | size                 |  |
| index      |           |     |            | sheet                                 | 1                | 2               | 3                 | 4        | 5          | 88953                |  |
|            |           |     |            |                                       |                  |                 |                   |          |            | 1 of 8               |  |



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

KEY (SIGNAL STB)

| CODE | DIMENSIONS      |                 |
|------|-----------------|-----------------|
|      | DIM "A"<br>MATE | DIM "B"<br>TAIL |
| 1    | 5.00            | 4.25            |
| 2    | 5.75            | 4.25            |
| 3    | 6.50            | 4.25            |
| 4    | 7.25            | 4.25            |
| 5    | 5.00            | 3.38            |
| 6    | 5.75            | 3.38            |
| 7    | 6.50            | 3.38            |
| 8    | 7.25            | 3.38            |
| 9    | 5.00            | 2.65            |
| 10   | 5.75            | 2.65            |
| 11   | 6.50            | 2.65            |
| 12   | 7.25            | 2.65            |
| 13   | 8.00            | 4.25            |

|             |                |      |            |                                          |                                                                                                             |                |        |                                                                                                             |                                                   |
|-------------|----------------|------|------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------|--------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| mat'l code  |                |      |            | tolerances unless<br>otherwise specified |                                                                                                             | CUSTOMER       |        | <br>www.fciconnect.com |                                                   |
| ltr         | ecn no.        | dr   | date       | linear                                   | 0.X ±0.3                                                                                                    | COPY           |        |                        | title<br>METRAL SIGNAL HEADER<br>4 MOD, 4 ROW STB |
| V           |                |      |            |                                          | 0.XX ±0.13                                                                                                  | projection     |        |                                                                                                             |                                                   |
|             |                |      |            |                                          | .XXX ±.051                                                                                                  |                |        |                                                                                                             |                                                   |
|             |                |      |            | angles                                   | 0° ±2°                                                                                                      |                |        |                                                                                                             |                                                   |
|             |                | dr   | T.BRUNGARD | 11/19/99                                 | <br>MM<br>scale<br>1:1 | product family |        | METRAL                                                                                                      | code                                              |
|             |                | engr | M.STRAWSER | 11/19/99                                 |                                                                                                             | size           | dwg no | 213                                                                                                         | sheet                                             |
|             |                | chr  | M.STRAWSER | 11/19/99                                 |                                                                                                             | 88953          |        | 2                                                                                                           |                                                   |
|             |                | appd | M.STRAWSER | 02/29/00                                 |                                                                                                             |                |        |                                                                                                             |                                                   |
| sheet index | revision sheet |      |            |                                          |                                                                                                             |                |        |                                                                                                             |                                                   |

cage code 22526

Pro/E

PDM: Rev:V

STATUS:Released

Printed: Nov 30, 2009

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|             |         |                |      |        |                      |                                          |      |          |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-------------|---------|----------------|------|--------|----------------------|------------------------------------------|------|----------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| mat'l code  |         |                |      | --     |                      | tolerances unless<br>otherwise specified |      | CUSTOMER |                                                                                                      | <br>www.fciconnect.com                                                                                                                                                                                                                                                                                                                                                  |  |
| lfr         | ecn no. | dr             | date | linear | 0.X $\pm$ 0.3        |                                          | COPY |          | <br>projection  | title                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| v           |         |                |      |        | 0.XX $\pm$ 0.13      |                                          |      |          |                                                                                                      | METRAL SIGNAL HEADER                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|             |         |                |      |        | .XXX $\pm$ .051      |                                          |      |          |                                                                                                      | 4 MOD, 4 ROW STB                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|             |         |                |      | angles | 0° $\pm$ 2°          |                                          |      |          | <br>MM<br>scale | product family                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|             |         |                |      | dr     | T.BRUNGARD 11/19/99  |                                          |      |          |                                                                                                      | METRAL                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|             |         |                |      | engr   | M. STRAWSER 11/19/99 |                                          |      |          |                                                                                                      | code                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|             |         |                |      | chr    | M. STRAWSER 11/19/99 |                                          |      |          |                                                                                                      | 213                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|             |         |                |      | appd   | M. STRAWSER 02/29/00 |                                          |      |          |                                                                                                      | sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| sheet index |         | revision sheet |      |        |                      |                                          |      |          |                                                                                                      | <div style="display: flex; justify-content: space-between;"> <div>size</div> <div>dwg no</div> <div>code</div> </div> <div style="display: flex; justify-content: space-between;"> <div>A</div> <div>88953</div> <div>213</div> </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div></div> <div>sheet</div> </div> <div style="display: flex; justify-content: space-between;"> <div></div> <div></div> <div>3</div> </div> |  |

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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 |
| 88953-XII                          | 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  |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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  |

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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 |
| 88953-X15                          | 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  |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 1                      | 1 | 1 | 1 | 1 | 1      | 1 | 1 | 1 | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1      | 1  | 1  | 1  | 1  | 1  | 1  |

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|-------------|----------------|----|------|---------------------------------------|------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------|
| mat'l code  |                |    |      | tolerances unless otherwise specified |                  | CUSTOMER                                                                                            |                                                   | <br>www.fciconnect.com |             |                                                                                             |
| lfr         | ecn no.        | dr | date | linear                                | 0. X $\pm$ 0.3   | projection<br> | title<br>METRAL SIGNAL HEADER<br>4 MOD, 4 ROW STB | product family<br>METRAL                                                                                    | code<br>213 |                                                                                             |
| V           |                |    |      |                                       | 0. XX $\pm$ 0.13 |                                                                                                     |                                                   |                                                                                                             |             | MM<br> |
|             |                |    |      |                                       | .XXX $\pm$ .051  |                                                                                                     |                                                   |                                                                                                             |             |                                                                                             |
|             |                |    |      | angles                                | 0° $\pm$ 2°      | scale<br>1 : 1                                                                                      | size<br>A                                         | dwg no<br>88953                                                                                             | sheet<br>4  |                                                                                             |
|             |                |    | dr   | T. BRUNGARD                           | 11/19/99         |                                                                                                     |                                                   |                                                                                                             |             |                                                                                             |
|             |                |    | enrg | M. STRAWSER                           | 11/19/99         |                                                                                                     |                                                   |                                                                                                             |             |                                                                                             |
|             |                |    | chr  | M. STRAWSER                           | 11/19/99         |                                                                                                     |                                                   |                                                                                                             |             |                                                                                             |
|             |                |    | appd | M. STRAWSER                           | 02/29/00         |                                                                                                     |                                                   |                                                                                                             |             |                                                                                             |
| sheet index | revision sheet |    |      |                                       |                  |                                                                                                     |                                                   |                                                                                                             |             |                                                                                             |

| 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 |
| 88953-X17<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 3                      | 3 | 3 | 3 | 3 | 3 | 3      | 3 | 3 | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  | 3      | 3  | 3  | 3  | 3  | 3  |

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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 |
| 88953-X35<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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 |
| 88953-X36<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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  |

| 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 |
| 88953-X37<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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 |
| 88953-X38<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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 |
| 8895-X39<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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 |
| 88953-X40<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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  |

| 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 |
| 88953-X41<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X42<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X43<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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 |
| 88953-X45<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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   | 5                      | 5 | 5 | 5 | 5 | 5      | 5 | 5 | 5 | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5      | 5  | 5  | 5  | 5  | 5  | 5  |

|                |         |                   |      |                                          |            |          |              |            |   |                                                                        |  |  |  |  |
|----------------|---------|-------------------|------|------------------------------------------|------------|----------|--------------|------------|---|------------------------------------------------------------------------|--|--|--|--|
| mat'l code     |         |                   |      | tolerances unless<br>otherwise specified |            |          |              | CUSTOMER   |   | FCI<br>www.fciconnect.com                                              |  |  |  |  |
| lfr            | ecn no. | dr                | date | linear                                   | 0.X ±0.3   |          |              | COPY       |   | title<br>METRAL SIGNAL HEADER<br>4 MOD, 4 ROW STB                      |  |  |  |  |
| V              |         |                   |      |                                          | 0.XX ±0.13 |          |              | projection |   |                                                                        |  |  |  |  |
|                |         |                   |      |                                          | .XXX ±.051 |          |              |            |   |                                                                        |  |  |  |  |
|                |         |                   |      | angles                                   | 0° ±°      |          |              |            |   | product family<br>METRAL<br>size<br>88953<br>code<br>213<br>sheet<br>5 |  |  |  |  |
|                |         |                   |      | dr                                       | T.BRUNGARD | 11/19/99 | MM           |            |   |                                                                        |  |  |  |  |
|                |         |                   |      | enrg                                     | M.STRAWSE  | 11/19/99 |              |            |   |                                                                        |  |  |  |  |
|                |         |                   |      | chr                                      | M.STRAWSE  | 11/19/99 | scale<br>1:1 |            | A |                                                                        |  |  |  |  |
|                |         |                   |      | appd                                     | M.STRAWSE  | 02/29/00 |              |            |   |                                                                        |  |  |  |  |
| sheet<br>index |         | revision<br>sheet |      |                                          |            |          |              |            |   |                                                                        |  |  |  |  |

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|             |         |                |      |                                       |                     |                                                                                                         |                                                   |                                                                                                          |            |           |                 |
|-------------|---------|----------------|------|---------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|-----------|-----------------|
| mat'l code  |         |                |      | tolerances unless otherwise specified |                     | CUSTOMER                                                                                                |                                                   |  www.fciconnect.com |            |           |                 |
| lfr         | ecn no. | dr             | date | linear                                | 0. X $\pm$ 0.3      | projection<br>     | title<br>METRAL SIGNAL HEADER<br>4 MOD, 4 ROW STB |                                                                                                          |            |           |                 |
| V           |         |                |      |                                       | 0. XX $\pm$ 0.13    |                                                                                                         |                                                   |                                                                                                          |            |           |                 |
|             |         |                |      |                                       | .XXX $\pm$ .051     |                                                                                                         |                                                   |                                                                                                          |            |           |                 |
|             |         |                |      | angles                                | 0° $\pm$ 2°         | <br>scale<br>1 : 1 | product family<br>METRAL                          | code<br>213                                                                                              | sheet<br>6 |           |                 |
|             |         |                |      | dr                                    | T.BRUNGARD 11/19/99 |                                                                                                         |                                                   |                                                                                                          |            | size<br>A | dwg no<br>88953 |
|             |         |                |      | engr                                  | M.STRAWSER 11/19/99 |                                                                                                         |                                                   |                                                                                                          |            |           |                 |
|             |         |                |      | chr                                   | M.STRAWSER 11/19/99 |                                                                                                         |                                                   |                                                                                                          |            |           |                 |
|             |         |                |      | appd                                  | M.STRAWSER 02/29/00 |                                                                                                         |                                                   |                                                                                                          |            |           |                 |
| sheet index |         | revision sheet |      |                                       |                     |                                                                                                         |                                                   |                                                                                                          |            |           |                 |

| 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 |    |
| 88953-X64<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | D   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 20 | 21 | 22 | 23 | 24 |
|                                                     | 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 | 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 | 11 |
|                                                     | 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 | 12 |

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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 |
| 88953-X69                          | D   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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 |
| 88953-X70                          | 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  |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X71                          | 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 |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X72                          | D   | 12                     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12     | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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 |
| 88953-X73                          | 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  |
| SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 9                      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9      | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  |

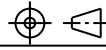
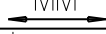
| METRAL<br>P/N                                       | ROW | CONTACT CODE<br>MOD. 1 |    |    |    |    | MOD. 2 |    |    |    |    | MOD. 3 |    |    |    |    | MOD. 4 |    |    |    |    |    |    |    |    |
|-----------------------------------------------------|-----|------------------------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|--------|----|----|----|----|----|----|----|----|
|                                                     |     | 1                      | 2  | 3  | 4  | 5  | 6      | 7  | 8  | 9  | 10 | 11     | 12 | 13 | 14 | 15 | 16     | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 88953-X75<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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   | 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 |
| 88953-X76<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X77<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X78<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X79<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                     | 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 |

|            |         |    |      |                                          |            |                                                                                       |                                                                                       |                                                                                                          |        |      |
|------------|---------|----|------|------------------------------------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------|------|
| mat'l code |         |    |      | tolerances unless<br>otherwise specified |            | CUSTOMER                                                                              |                                                                                       |  www.fcjconnect.com |        |      |
| lfr        | ecn no. | dr | date | linear                                   | 0.X ±0.3   | projection                                                                            |  | title                                                                                                    |        |      |
| V          |         |    |      |                                          | 0.XX ±0.13 |                                                                                       |                                                                                       | METRAL SIGNAL HEADER                                                                                     |        |      |
|            |         |    |      |                                          | .XXX ±.051 |                                                                                       |                                                                                       | 4 MOD, 4 ROW STB                                                                                         |        |      |
|            |         |    |      | angles                                   | 0° ±°      |  | scale                                                                                 | product family                                                                                           |        |      |
|            |         |    |      | dr                                       | T.BRUNGARD |                                                                                       |                                                                                       | 11/19/99                                                                                                 | METRAL | code |
|            |         |    |      | enrg                                     | M.STRAWSE  |                                                                                       |                                                                                       | 11/19/99                                                                                                 | size   | 213  |
|            |         |    | </   |                                          |            |                                                                                       |                                                                                       |                                                                                                          |        |      |



| 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 |
| 88953-X80<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                     | 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 |
| 88953-X81<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | D   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                     | C   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                     | B   | 13                     | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13     | 13 | 13 | 13 | 13 | 13 | 13 |
|                                                     | 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 |
| 88953-X82<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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   | 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   | 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 |
| 88953-X83<br><br>SEE NOTE 10<br>LEAD FREE<br>OPTION | 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  |

# NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING SOLDER TO BOARD:  
88953 -XXX IS SnPb  
88953-XXYLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE  
LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- 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 OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-074
- A PLATING HAS Au FLASH IN PRESS FIT  
AREA (LEAD FREE).
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE  
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS  
AS DESCRIBED IN GS-22-008.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 88953-XOILF
- 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.

|                |                   |    |      |                                          |            |                    |                          |                           |                                          |          |
|----------------|-------------------|----|------|------------------------------------------|------------|--------------------|--------------------------|---------------------------|------------------------------------------|----------|
| mat'l code     |                   |    |      | tolerances unless<br>otherwise specified |            | CUSTOMER           |                          | FCI<br>www.fciconnect.com |                                          |          |
| lfr            | ecn no.           | dr | date | linear                                   | 0.X ±0.3   | projection         | COPY                     | title                     | METRAL SIGNAL HEADER<br>4 MOD, 4 ROW STB |          |
| V              |                   |    |      |                                          | 0.XX ±0.13 |                    |                          |                           |                                          |          |
|                |                   |    |      |                                          | .XXX ±.051 |                    |                          |                           |                                          |          |
|                |                   |    |      |                                          | 0° ±2°     |                    |                          |                           |                                          |          |
|                |                   |    |      | angles                                   |            | MM<br>scale<br>1:1 | product family<br>METRAL | code<br>213               | sheet<br>8                               |          |
|                |                   |    |      | dr                                       | T.BRUNGARD |                    |                          |                           |                                          | 11/19/99 |
|                |                   |    |      | engr                                     | M.STRAWSE  |                    |                          |                           |                                          | 11/19/99 |
|                |                   |    |      | chr                                      | M.STRAWSE  |                    |                          |                           |                                          | 11/19/99 |
|                |                   |    |      | appd                                     | M.STRAWSE  | 02/29/00           |                          |                           |                                          |          |
| sheet<br>index | revision<br>sheet |    |      |                                          |            |                    |                          |                           |                                          |          |



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

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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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