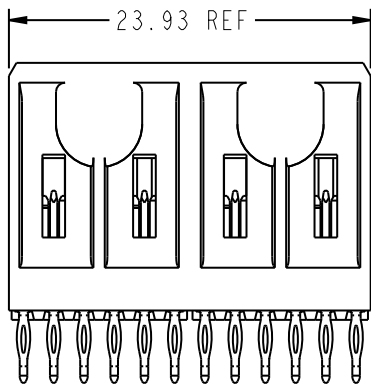
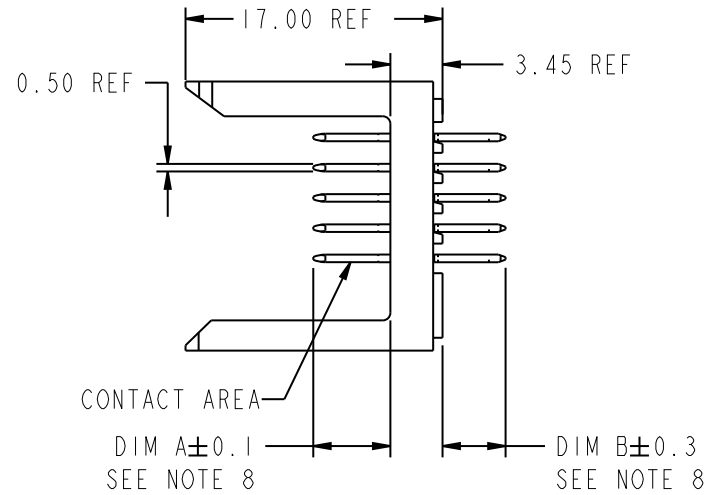
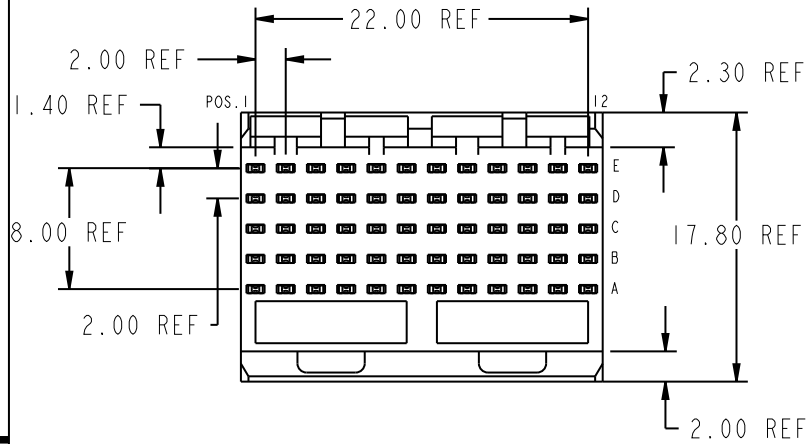

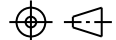



| |
|-----------------------------------|
| PRODUCT NUMBER |
| 85853-XYX OR 85853-XXXX |
| 85853-XYXLF OR 85853-XXXXLF |



| | | | | | | | | | | | | | |
|------------|-----------|-----|------------|---------------------------------------|--------------|----------|-------|---|--|--------|---|---------|--|
| mat'l code | | | | tolerances unless otherwise specified | | | | CUSTOMER | | |  www.fciconnect.com | | |
| ltr | ecm no. | dr | date | linear | 0.X ± 0.3 | | | COPY | | | title | | |
| CW | V06-0569 | DCH | 2006-06-13 | | 0.XX ± 0.13 | | | projection | | | METRAL SIGNAL HEADER | | |
| CX | DG09-0256 | TER | 2009-08-19 | | .XXX ± 0.051 | | |  | | | 2 MOD, 5 ROW PRESS-FIT | | |
| - | - | - | - | angles | 0° ± 2° | | |  | | | product family | | |
| CS | V04-0408 | TAB | 04/27/04 | dr | T.BRUNGARD | 11/19/99 | scale | | | METRAL | | | |
| CT | V04-0353 | DAI | 05/02/04 | engr | M.STRAWSER | 11/19/99 | 2:1 | | | size | | code | |
| CU | V04-0559 | HTB | 06/01/04 | chr | M.STRAWSER | 11/19/99 | A | | | dwg no | | 213 | |
| CV | V04-1100 | DAI | 01/25/05 | appd | M.STRAWSER | 02/29/00 | | | | 85853 | | sheet | |
| | | | | sheet | | | | CX CX CX CX CX CX CX CX CX CX CX CX CX CX CX CX | | | | 1 of 15 | |
| index | | | | revision | | | | CX CX CX CX CX CX CX CX CX CX CX CX CX CX CX CX | | | | | |
| | | | | sheet | | | | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | | | | | |

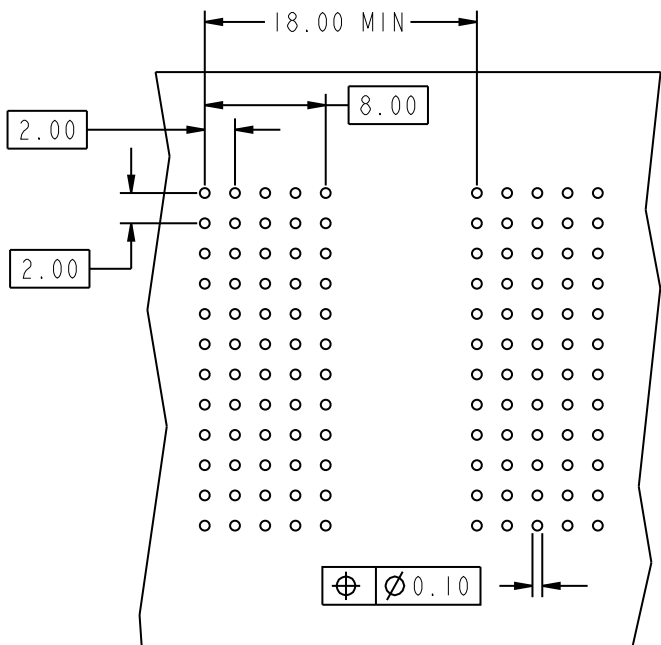


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4



| KEY | | |
|------|--------------|--------------|
| CODE | DIMENSIONS | |
| | DIM "A" MATE | DIM "B" 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 |
| 19 | 8.00 | 4.30 |
| 20 | 8.00 | 13.60 |
| 21 | 8.00 | 17.00 |
| 25 | 5.75 | 15.60 |
| 33 | 7.25 | 12.90 |
| 36 | 5.75 | 14.40 |
| 49 | 5.75 | 15.10 |
| 64 | 5.75 | 14.90 |
| 67 | 7.25 | 16.30 |

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



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| mat'l code | | | | tolerances unless otherwise specified | | CUSTOMER | | FCJ | | www.fcjconnect.com | |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | | projection | title | |
| CX | | | | | 0.XX ±0.13 | | MM | | | METRAL SIGNAL HEADER | |
| | | | | | .XXX ±.051 | | 1:1 | | | 2 MOD, 5 ROW PRESS-FIT | |
| | | | | angles | 0° ±2° | | MM | | product family | | code |
| | | | | dr | T.BRUNGARD | 11/19/99 | A | | METRAL | | 213 |
| | | | | engr | M.STRAWSER | 11/19/99 | A | | size | | sheet |
| | | | | chr | M.STRAWSER | 11/19/99 | A | | 85853 | | 2 |
| | | | | appd | M.STRAWSER | 02/29/00 | A | | A | | |
| sheet index | revision sheet | | | | | | | | | | |

cage code 22526

Pro/E

3 |

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PDM: Rev: CX

STATUS: Released

Printed: Jan 17, 2011



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | | |
|---|-----|---|----|----|----|----|--------|----|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| | | 85853-X01 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 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 |
| | B | 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 |
| 85853-X02 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 |
| | D | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 |
| | C | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 |
| | B | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 |
| | A | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 | 19 | 3 | 3 |
| 85853-X03 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 |
| | D | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 |
| | C | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 |
| | B | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 |
| | A | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 | 3 | 19 |
| 85853-X04 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 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 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X05 SEE NOTE 10 LEAD FREE OPTION | E | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | D | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | C | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | B | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | A | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 85853-X06 SEE NOTE 10 LEAD FREE OPTION | E | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | D | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | C | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | B | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X07 SEE NOTE 10 LEAD FREE OPTION | E | 33 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | D | 36 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | C | 33 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | B | 36 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | A | 33 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 85853-X08 SEE NOTE 10 LEAD FREE OPTION | E | 4 | 1 | 1 | 1 | 19 | 1 | 1 | 1 | 1 | 19 | 1 | 1 | 1 |
| | D | 3 | 1 | 1 | 1 | 19 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | C | 3 | 1 | 1 | 1 | 19 | 1 | 1 | 1 | 1 | 19 | 1 | 1 | 1 |
| | B | 3 | 1 | 1 | 1 | 19 | 1 | 1 | 1 | 1 | 19 | 1 | 1 | 1 |
| | A | 3 | 1 | 1 | 1 | 19 | 1 | 1 | 1 | 1 | 19 | 1 | 1 | 1 |
| 85853-X09 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | B | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X10 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | B | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | A | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| 85853-X11 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 19 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 19 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 19 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 19 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 19 | 2 | 2 |
| 85853-X12 SEE NOTE 10 LEAD FREE OPTION | E | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 20 | 20 | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 85853-X13 SEE NOTE 10 LEAD FREE OPTION | E | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 19 | 19 | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| | | | | | | | | | | | |
|------------|----------|----|---------------------------------------|--------|---------------------|------------|--|------------------------|--|--------------------|--|
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| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | COPY | | title | | | |
| CX | | | | | 0.XX ±0.13 | projection | | METRAL SIGNAL HEADER | | | |
| | | | | angles | .XXX ±.051 | | | 2 MOD, 5 ROW PRESS-FIT | | | |
| | | | | | 0° ±2° | | | product family | | code | |
| | | | | dr | T.BRUNGARD 11/19/99 | MM | | METRAL | | 213 | |
| | | | | engr | M.STRAWSER 11/19/99 | A | | size | | 213 | |
| | | | | chr | M.STRAWSER 11/19/99 | 1:1 | | dwg no | | 3 | |
| | | | | appd | M.STRAWSER 02/29/00 | | | 85853 | | 3 | |
| sheet | revision | | | | | | | cage code | | 4 | |
| index | sheet | | | | | | | 22526 | | 4 | |



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A

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X14 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | D | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 3 | 1 | 1 | 1 |
| | C | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 4 | 3 | 3 | 1 | 1 |
| | B | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 3 | 3 | 1 | 1 |
| | A | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 1 | 4 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X15 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 |
| | D | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 |
| | C | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 |
| | B | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 |
| | A | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X16 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 3 | 1 | 1 | 1 |
| | D | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 3 | 1 | 1 | 1 |
| | C | 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 |
| | A | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X17 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | D | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 3 | 4 | 1 | 1 |
| | C | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 4 | 3 | 3 | 1 | 1 |
| | B | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 | 3 | 3 | 1 | 1 |
| | A | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 4 | 3 | 4 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X18 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 |
| | D | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 |
| | C | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 |
| | B | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 |
| | A | 4 | 4 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 4 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X19 SEE NOTE 10 LEAD FREE OPTION | E | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | D | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | C | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | B | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | A | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X20 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 |
| | D | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | C | 3 | 2 | 2 | 2 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X21 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 19 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X22 SEE NOTE 10 LEAD FREE OPTION | E | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 19 | 19 | 19 | 2 | 2 | 19 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 4 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X23 SEE NOTE 10 LEAD FREE OPTION | E | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| | D | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| | C | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| | B | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| | A | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X24 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | B | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 |
| | A | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 8 | 6 | 6 | 20 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X25 SEE NOTE 10 LEAD FREE OPTION | E | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 20 | 20 | 20 | 6 | 6 | 20 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 8 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X26 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | D | 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 |
| | B | 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 |

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| | | | | | | | | | | | |
|-------------|----------|----|------|---------------------------------------|-------------|----------|--------|------------|------------------------|--------------------|-------|
| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | | | www.fcjconnect.com | |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | title | | |
| CX | | | | | 0.XX ±0.13 | | | | METRAL SIGNAL HEADER | | |
| | | | | | .XXX ±0.051 | | | | 2 MOD, 5 ROW PRESS-FIT | | |
| | | | | angles | 0° ±2° | | | | product family | | code |
| | | | | dr | T.BRUNGARD | 11/19/99 | METRAL | | | | 213 |
| | | | | engr | M.STRAWSE | 11/19/99 | size | | dwg no | | sheet |
| | | | | chr | M.STRAWSE | 11/19/99 | A | | 85853 | | 4 |
| | | | | appd | M.STRAWSE | 02/29/00 | scale | | 1:1 | | |
| sheet index | revision | | | | | | | | | | |
| | sheet | | | | | | | | | | |

B

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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|---|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X27 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | D | 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 |
| | B | 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 |
| 85853-X28 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | - | 2 | - | 2 | - | |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | - | 2 | - | |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | - | - | - | - | - | |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | - | 2 | - | 2 | - | |
| 85853-X29 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | D | - | - | - | - | - | - | - | - | - | - | - | - |
| | C | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | B | - | - | - | - | - | - | - | - | - | - | - | - |
| | A | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| 85853-X30 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 3 | 3 | 19 | 19 | 3 | 4 |
| | D | - | - | - | - | - | - | 3 | 3 | 19 | 19 | 3 | 4 |
| | C | 2 | - | 2 | - | 2 | - | 3 | 3 | 19 | 19 | 3 | 4 |
| | B | - | - | - | - | - | - | 3 | 3 | 19 | 19 | 3 | 4 |
| | A | 2 | - | 2 | - | 2 | - | 3 | 3 | 19 | 19 | 3 | 4 |
| 85853-X31 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 4 | 2 | 2 | 2 | 2 | 2 |
| | D | - | - | - | - | - | - | 4 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | - | 2 | - | 2 | - | 4 | 2 | 2 | 2 | 2 | 2 |
| | B | - | - | - | - | - | - | 4 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | - | 2 | - | 2 | - | 4 | 2 | 2 | 2 | 2 | 2 |
| 85853-X32 SEE NOTE 10 LEAD FREE OPTION | E | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 6 | 5 |
| | D | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 6 | 5 |
| | C | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 6 | 5 |
| | B | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 6 | 5 |
| | A | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 6 | 5 |
| 85853-X33 SEE NOTE 10 LEAD FREE OPTION | E | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 7 | 7 |
| | D | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 7 | 7 |
| | C | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 7 | 7 |
| | B | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 7 | 7 |
| | A | 20 | 7 | 7 | 7 | 7 | 7 | 20 | 7 | 7 | 7 | 7 | 7 |
| 85853-X34 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | - | 2 | - | 2 | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | - | 2 | - | 2 | - | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X35 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 2 | 1 |
| | D | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 2 | 1 |
| | C | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 2 | 1 |
| | B | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 2 | 1 |
| | A | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 2 | 1 |
| 85853-X36 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 3 | 3 |
| | D | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 3 | 3 |
| | C | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 3 | 3 |
| | B | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 3 | 3 |
| | A | 19 | 3 | 3 | 3 | 3 | 3 | 19 | 3 | 3 | 3 | 3 | 3 |
| 85853-X37 SEE NOTE 10 LEAD FREE OPTION | E | - | - | - | - | - | - | - | - | - | - | - | - |
| | D | - | - | - | - | - | - | - | - | - | - | - | - |
| | C | - | - | - | - | - | - | - | - | - | - | - | - |
| | B | - | - | - | - | - | - | - | - | - | - | - | - |
| | A | - | - | - | - | - | - | - | - | - | - | - | - |
| 85853-X38 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | 19 | - | 19 |
| | D | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | 19 | - | 19 |
| | C | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | 19 | - | 19 |
| | B | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | 19 | - | 19 |
| | A | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | 19 | - | 19 |
| 85853-X39 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | 7 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | D | 3 | 3 | 7 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | C | 3 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | B | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | | | | | |
|------------|--|--|----------|--|--|---------------------------------------|--|--|---------------------|--|--|------------------------|--|--|
| mat'l code | | | -- | | | tolerances unless otherwise specified | | | CUSTOMER | | | FCJ | | |
| ltr | | | ecn no. | | | dr | | | date | | | www.fcjconnect.com | | |
| CX | | | | | | linear | | | 0.X ±0.3 | | | projection | | |
| | | | | | | angles | | | 0.XX ±0.13 | | | title | | |
| | | | | | | | | | .XXX ±.051 | | | METRAL SIGNAL HEADER | | |
| | | | | | | dr | | | T.BRUNGARD 11/19/99 | | | 2 MOD, 5 ROW PRESS-FIT | | |
| | | | | | | engr | | | M.STRAWSER 11/19/99 | | | product family | | |
| | | | | | | chr | | | M.STRAWSER 11/19/99 | | | METRAL | | |
| | | | | | | appd | | | M.STRAWSER 02/29/00 | | | code | | |
| | | | | | | | | | | | | size | | |
| | | | | | | | | | | | | dwg no | | |
| | | | | | | | | | | | | 213 | | |
| | | | | | | | | | | | | sheet | | |
| | | | | | | | | | | | | 5 | | |
| sheet | | | revision | | | | | | | | | | | |
| index | | | sheet | | | | | | | | | | | |

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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X53 SEE NOTE 10 LEAD FREE OPTION | E | - | 1 | 1 | - | - | - | - | - | - | - | 1 | 1 |
| | D | - | 1 | 1 | - | - | - | - | - | - | - | 1 | 1 |
| | C | - | - | - | - | - | - | - | - | - | - | - | - |
| | B | - | 1 | 1 | - | - | 1 | - | 1 | 1 | - | 1 | 1 |
| | A | - | 1 | 1 | - | - | 1 | - | 1 | 1 | - | 1 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X58 SEE NOTE 10 LEAD FREE OPTION | E | - | 1 | 1 | - | - | - | - | - | - | - | 1 | 1 |
| | D | - | 1 | 1 | - | - | - | - | - | - | - | 1 | 1 |
| | C | - | - | - | - | - | - | - | - | - | - | - | - |
| | B | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|----|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X62 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 20 | - | 20 | - | 6 | - | 6 | - | 20 |
| | D | 6 | 6 | 6 | 20 | - | 20 | - | 6 | - | 6 | - | 20 |
| | C | 6 | 6 | 6 | 20 | - | 20 | - | 6 | - | 6 | - | 20 |
| | B | 6 | 6 | 6 | 20 | - | 20 | - | 6 | - | 6 | - | 20 |
| | A | 6 | 6 | 6 | 20 | - | 20 | - | 6 | - | 6 | - | 20 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X54 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 1 | - | 1 | - | 1 | - | - | 1 | - |
| | D | 1 | 1 | 1 | 1 | - | 1 | - | 1 | - | - | 1 | - |
| | C | 1 | 1 | 1 | 1 | - | 1 | - | 1 | - | - | 1 | - |
| | B | 1 | 1 | 1 | 1 | - | 1 | - | 1 | - | - | 1 | - |
| | A | 1 | 1 | 1 | 1 | - | 1 | - | 1 | - | - | 1 | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X59 SEE NOTE 10 LEAD FREE OPTION | E | 3 | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | D | 3 | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | C | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X63 SEE NOTE 10 LEAD FREE OPTION | E | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | D | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X55 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | D | 2 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | C | 2 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | B | 2 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | A | 2 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|----|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X60 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 19 | - | 19 | - | 2 | - | 2 | - | 19 |
| | D | 2 | 2 | 2 | 19 | - | 19 | - | 2 | - | 2 | - | 19 |
| | C | 2 | 2 | 2 | 19 | - | 19 | - | 2 | - | 2 | - | 19 |
| | B | 2 | 2 | 2 | 19 | - | 19 | - | 2 | - | 2 | - | 19 |
| | A | 2 | 2 | 2 | 19 | - | 19 | - | 2 | - | 2 | - | 19 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X64 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | - | - | - | 2 | 2 | - | - | - | - | 2 | - |
| | A | 2 | - | 2 | - | - | 2 | 2 | - | 2 | - | - | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|---|--------|---|----|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X56 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | - | 19 | - |
| | D | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | - | 19 | - |
| | C | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | - | 19 | - |
| | B | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | - | 19 | - |
| | A | 19 | 19 | 19 | 19 | - | 19 | - | 19 | - | - | 19 | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X61 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X65 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |
| | D | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |
| | C | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |
| | B | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |
| | A | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|---|---|----|--------|----|---|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X57 SEE NOTE 10 LEAD FREE OPTION | E | - | 19 | - | - | 19 | - | 19 | - | 19 | 19 | 19 | 19 |
| | D | - | 19 | - | - | 19 | - | 19 | - | 19 | 19 | 19 | 19 |
| | C | - | 19 | - | - | 19 | - | 19 | - | 19 | 19 | 19 | 19 |
| | B | - | 19 | - | - | 19 | - | 19 | - | 19 | 19 | 19 | 19 |
| | A | - | 19 | - | - | 19 | - | 19 | - | 19 | 19 | 19 | 19 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|----------|--|--|--|---------------------------------------|--|--|--|----------|--|--|--|------------|--|--|--|------------------------|--|--|--|
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| lfr | | | | ecn no. | | | | dr | | | | date | | | | COPY | | | | www.fcjconnect.com | | | |
| CX | | | | | | | | | | | | | | | | projection | | | | title | | | |
| | | | | | | | | | | | | | | | | | | | | METRAL SIGNAL HEADER | | | |
| | | | | | | | | | | | | | | | | angles | | | | 2 MOD, 5 ROW PRESS-FIT | | | |
| | | | | | | | | | | | | | | | | dr | | | | product family | | | |
| | | | | | | | | | | | | | | | | engr | | | | METRAL | | | |
| | | | | | | | | | | | | | | | | chr | | | | size | | | |
| | | | | | | | | | | | | | | | | appd | | | | dwg no | | | |
| | | | | | | | | | | | | | | | | | | | | 85853 | | | |
| | | | | | | | | | | | | | | | | | | | | code | | | |
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| | | | | | | | | | | | | | | | | | | | | 7 | | | |
| sheet | | | | revision | | | | | | | | | | | | | | | | | | | |
| index | | | | sheet | | | | | | | | | | | | | | | | | | | |



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X66 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 |
| | D | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 |
| | C | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 |
| | B | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 |
| | A | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X67 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 20 | 20 |
| | B | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 | 6 |
| | A | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 20 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X68 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X69 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X70 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X71 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |
| | B | - | - | - | - | - | 2 | 2 | 3 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X72 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 4 | 4 | 4 | 4 | 19 | 4 | 2 | 19 | 19 | 19 | 2 |
| | D | 1 | 4 | 4 | 4 | 4 | 19 | 4 | 2 | 19 | 19 | 19 | 2 |
| | C | 19 | 4 | 4 | 4 | 4 | 19 | 4 | 2 | 19 | 19 | 19 | 2 |
| | B | 3 | 4 | 4 | 4 | 4 | 19 | 4 | 2 | 19 | 19 | 19 | 2 |
| | A | 3 | 4 | 4 | 4 | 4 | 19 | 4 | 2 | 19 | 19 | 19 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X73 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 |
| | D | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 |
| | C | 1 | 1 | 6 | 1 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 |
| | B | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 |
| | A | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 85853-X74 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X75 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 6 | 8 | 6 | 8 | 8 | 6 | 8 | 8 | 8 | 6 | 8 | 6 |
| | B | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X76 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| | D | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| | C | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| | B | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| | A | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X77 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X78 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 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 |

| | | | | | | | | | |
|------------|----------|---------------------------------------|------------|---------------------------|---|--------|-------|-------|---|
| mat'l code | -- | tolerances unless otherwise specified | CUSTOMER | FCJ www.fcjconnect.com | | | | | |
| ltr | ecr no. | dr | date | COPY | title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT | | | | |
| CX | | | | projection | | | | | |
| | | | | angles | | | | | |
| | | | | linear | 0.X ±0.3 | | | | |
| | | | | linear | 0.XX ±0.13 | | | | |
| | | | | linear | .XXX ±.051 | | | | |
| | | | | angles | 0° ±2° | | | | |
| | | dr | T.BRUNGARD | 11/19/99 | | | | | |
| | | engr | M.STRAWSER | 11/19/99 | | | | | |
| | | chr | M.STRAWSER | 11/19/99 | | | | | |
| | | appd | M.STRAWSER | 02/29/00 | | | | | |
| sheet | revision | | | | product family | METRAL | code | 213 | |
| index | sheet | | | | size | dwg no | 85853 | sheet | 8 |
| | | | | | scale | A | | | |
| | | | | | 1:1 | | | | |
| | | | | | cage code | 22526 | | | |
| | | | | | | | | 4 | |



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X79 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 5 | 5 | 5 | 5 |
| | D | 5 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 5 | 5 | 5 | 5 |
| | C | 5 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 5 | 5 | 5 | 5 |
| | B | 5 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 5 | 5 | 5 | 5 |
| | A | 5 | 5 | 5 | 5 | 5 | 7 | 5 | 5 | 5 | 5 | 5 | 5 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X80 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| | D | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| | C | 5 | 6 | 5 | 6 | 6 | 6 | 5 | 5 | 6 | 6 | 6 | 6 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X81 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 6 | 5 | 6 | 6 | 5 | 6 | 6 | 5 | 6 | 6 | 5 | 5 |
| | B | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 |
| | A | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X82 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |
| | D | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |
| | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |
| | B | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |
| | A | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X83 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | D | 2 | - | - | - | 2 | - | - | - | - | 2 | - | - |
| | C | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | B | - | 2 | - | - | - | 2 | - | - | - | 2 | - | 4 |
| | A | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X84 SEE NOTE 10 LEAD FREE OPTION | E | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - |
| | D | - | - | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 4 | - | - |
| | C | - | - | 4 | 2 | 2 | 4 | 4 | 4 | 4 | 4 | - | - |
| | B | - | - | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 4 | - | - |
| | A | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | - | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X85 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | D | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | - | 2 | 2 | 2 | - | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | - | 2 | 2 | 2 | - | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | - | 2 | 2 | 2 | - | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X86 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 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 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X87 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 |
| | D | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 |
| | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 |
| | B | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - |
| | A | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X88 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 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 |
| | A | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X89 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 3 |
| | D | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | C | 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 |
| | A | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X90 SEE NOTE 10 LEAD FREE OPTION | E | 3 | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | D | 3 | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | C | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X91 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 |
| | B | 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 |

| | | | | | | | | | | | |
|-------------|----------------|----|------|---------------------------------------|---------------------|----------|--|----------------|--|--|--|
| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | FCJ | | www.fcjconnect.com | |
| ltr | ecr no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | | title | |
| CX | | | | angles | 0.XX ±0.13 | MM | | | | METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT | |
| | | | | dr | .XXX ±.051 | scale | | product family | | code | |
| | | | | engr | 0° ±2° | 1:1 | | METRAL | | 213 | |
| | | | | chr | T.BRUNGARD 11/19/99 | A | | size | | sheet | |
| | | | | appd | M.STRAWSER 11/19/99 | | | 85853 | | 9 | |
| | | | | | M.STRAWSER 02/29/00 | | | | | | |
| sheet index | revision sheet | | | | | | | | | | |



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X92 SEE NOTE 10 LEAD FREE OPTION | E | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 |
| | D | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 |
| | C | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 |
| | B | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 |
| | A | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 | - | 5 | 5 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X93 SEE NOTE 10 LEAD FREE OPTION | E | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | D | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X94 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| | C | 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 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X95 SEE NOTE 10 LEAD FREE OPTION | E | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 |
| | D | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 |
| | C | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 |
| | B | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 |
| | A | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X96 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | D | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | C | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | B | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | A | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X97 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 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 |
| | A | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X98 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | D | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | A | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|---|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X99 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |
| | A | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X100 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | D | 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 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|----|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X101 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 8 | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 20 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X102 SEE NOTE 10 LEAD FREE OPTION | E | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 |
| | D | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 |
| | C | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | B | 4 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 2 | 4 | 2 | 4 |
| | A | 4 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 2 | 4 | 2 | 4 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X103 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 |
| | D | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 |
| | C | 3 | 3 | 3 | 4 | 2 | 4 | 2 | 4 | 3 | 3 | 3 | 3 |
| | B | 3 | 3 | 3 | 4 | 2 | 4 | 2 | 4 | 3 | 3 | 3 | 3 |
| | A | 3 | 3 | 3 | 4 | 2 | 4 | 2 | 4 | 3 | 3 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X104 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | D | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | C | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | A | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | | |
|-------------|----------------|----|------|---------------------------------------|------------|---------------------|--|----------------|--|--|--|
| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | FCI | | www.fciconnect.com | |
| ltr | ecr no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | | title | |
| CX | | | | angles | 0.XX ±0.13 | MM | | | | METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT | |
| | | | | dr | .XXX ±.051 | T.BRUNGARD 11/19/99 | | product family | | METRAL code | |
| | | | | engr | 0° ±2° | M.STRAWSER 11/19/99 | | size | | 213 | |
| | | | | chr | | M.STRAWSER 11/19/99 | | dwg no | | sheet | |
| | | | | appd | | M.STRAWSER 02/29/00 | | A | | 10 | |
| sheet index | revision sheet | | | | | scale 1:1 | | 85853 | | | |



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X105 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | D | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | C | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | A | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X106 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 3 |
| | D | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 3 |
| | C | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 3 |
| | B | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 3 |
| | A | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 8 | 7 | 7 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X107 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | D | 3 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | C | 3 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | B | 3 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | A | 3 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X108 SEE NOTE 10 LEAD FREE OPTION | E | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 5 | 7 |
| | D | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 5 | 7 |
| | C | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 5 | 7 |
| | B | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 5 | 7 |
| | A | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 6 | 8 | 5 | 7 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X109 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 9 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 |
| | D | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| | B | 1 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| | A | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X110 SEE NOTE 10 LEAD FREE OPTION | E | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 |
| | D | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | C | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 |
| | B | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - |
| | A | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X111 SEE NOTE 10 LEAD FREE OPTION | E | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | D | 5 | 5 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 6 | 6 | 6 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X112 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | D | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | C | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | B | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | A | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X113 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 4 | 2 | 2 | 4 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 3 |
| | C | 2 | 2 | 4 | 2 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 3 |
| | B | 2 | 4 | 2 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X114 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| | D | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| | C | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| | B | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X115 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 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 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X116 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 8 |
| | D | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 8 |
| | C | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 8 |
| | B | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 8 |
| | A | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 8 | 8 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X117 SEE NOTE 10 LEAD FREE OPTION | E | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - |
| | D | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 |
| | C | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - |
| | B | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 |
| | A | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - | 64 | - |

| | | | | | | | | | | | |
|------------|----------|----|------|---------------------------------------|------------|----------|--|----------------|--|----------------------|--|
| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | FCJ | | www.fcjconnect.com | |
| ltr | ecr no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | | title | |
| CX | | | | angles | 0.XX ±0.13 | MM | | | | METRAL SIGNAL HEADER | |
| | | | | dr | .XXX ±.051 | scale | | product family | | code | |
| | | | | enrg | 0° ±2° | 1:1 | | METRAL | | 213 | |
| | | | | chr | | | | size | | sheet | |
| | | | | appd | | | | dwg no | | 11 | |
| sheet | revision | | | | | | | 85853 | | | |
| index | sheet | | | | | | | A | | | |



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|----|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X118 SEE NOTE 10 LEAD FREE OPTION | E | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - |
| | D | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 |
| | C | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - |
| | B | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 |
| | A | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - | 6 | - |
| 85853-X119 SEE NOTE 10 LEAD FREE OPTION | E | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 19 | 2 | 19 | 2 | 2 | 19 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 4 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X120 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 | |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 | |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 | |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 2 | |
| | A | 2 | 2 | 4 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 19 | 4 |
| 85853-X121 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 5 | |
| | D | 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 |
| | B | 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 |
| 85853-X122 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 4 | 4 | |

1 | 2

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|----|----|---|----|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X123 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 1 | |
| | D | 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 |
| | B | 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 |
| 85853-X124 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 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 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 |
| 85853-X125 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 19 | 19 | 19 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 |
| 85853-X126 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 6 | 6 | 6 | 21 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 6 | 6 | 6 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 2 |

3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|----|--------|----|----|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X127 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 19 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X128 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 19 | 19 | |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 19 | |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 19 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 19 | 19 | |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 19 | 19 |
| 85853-X129 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | |
| | D | 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 |
| | B | 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 |
| 85853-X130 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 5 | |
| | D | 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 |
| | B | 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 |

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| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | FCJ | | www.fcjconnect.com | |
| ltr | ecr no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | | title | |
| CX | | | | angles | 0.XX ±0.13 | MM | | | | METRAL SIGNAL HEADER | |
| | | | | dr | .XXX ±.051 | T.BRUNGARD | | 11/19/99 | | 2 MOD, 5 ROW PRESS-FIT | |
| | | | | enrg | 0° ±2° | M.STRAWSER | | 11/19/99 | | product family | |
| | | | | chr | | M.STRAWSER | | 11/19/99 | | METRAL | |
| | | | | appd | | M.STRAWSER | | 02/29/00 | | code | |
| sheet | revision | | | | | | | | | 213 | |
| index | sheet | | | | | | | | | 12 | |
| | | | | | | | | | | cage code | |
| | | | | | | | | | | 22526 | |

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cage code 22526

4



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| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X131 SEE NOTE 10 LEAD FREE OPTION | E | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - |
| | D | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - |
| | C | - | - | - | - | - | - | - | - | - | - | - | - |
| | B | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - |
| | A | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - | 9 | - |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X132 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X133 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X134 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X135 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | D | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X136 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X137 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X138 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 |
| | D | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X139 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 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 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 19 | 19 | 19 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X140 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 4 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|----|----|----|----|--------|----|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X141 SEE NOTE 10 LEAD FREE OPTION | E | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| | D | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| | C | 67 | 64 | 64 | 64 | 64 | 64 | 67 | 64 | 64 | 64 | 64 | 64 |
| | B | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| | A | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X142 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 |
| | B | 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 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X143 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| | B | 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 |

| | | | | | | | | | | | |
|-------------|----------------|----|------|---------------------------------------|------------|----------|-----|----------------|------------------------|--------------------|-------|
| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | FCJ | | www.fcjconnect.com | |
| lfr | ecn no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | title | | |
| CX | | | | | 0.XX ±0.13 | MM | | | METRAL SIGNAL HEADER | | |
| | | | | | .XXX ±.051 | ←→ | | | 2 MOD, 5 ROW PRESS-FIT | | |
| | | | | angles | 0° ±2° | scale | | product family | | code | |
| | | | | dr | T.BRUNGARD | 11/19/99 | 1:1 | | METRAL | | 213 |
| | | | | engr | M.STRAWSER | 11/19/99 | A | | size | | sheet |
| | | | | chr | M.STRAWSER | 11/19/99 | | | 85853 | | 13 |
| | | | | appd | M.STRAWSER | 02/29/00 | | | | | |
| sheet index | revision sheet | | | | | | | | cage code | | |
| | | | | | | | | | 22526 | | |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | MOD. 2 | | | | | | |
|--|-----|---------------------|---|---|---|---|--------|---|---|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 85853-X144 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 85853-X145 SEE NOTE 10 LEAD FREE OPTION | E | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | D | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | B | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 85853-X146 SEE NOTE 10 LEAD FREE OPTION | E | 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 |
| | C | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | B | 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 |
| 85853-X147 SEE NOTE 10 LEAD FREE OPTION | E | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 |
| | D | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 5 | 6 |
| | C | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 6 |
| | B | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | A | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |



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|-------------|----------------|----|------|---------------------------------------|------------|----------|--------------|------------------------|--|
| mat'l code | | -- | | tolerances unless otherwise specified | | CUSTOMER | | www.fciconnect.com | |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | | title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT |
| CX | | | | | 0.XX ±0.13 | | projection | | |
| | | | | | .XXX ±.051 | | | | |
| | | | | angles | 0° ±2° | | | | product family METRAL code size dwg no 213 sheet 14 85853 |
| | | | | dr | T.BRUNGARD | 11/19/99 | MM | | |
| | | | | engr | M.STRAWSER | 11/19/99 | scale 1:1 | | |
| | | | | chr | M.STRAWSER | 11/19/99 | A | | |
| | | | | appd | M.STRAWSER | 02/29/00 | | | |
| sheet index | revision sheet | | | | | | | | |

| |
|-----------------------------------|
| PRODUCT NUMBER |
| 85853-XYX OR 85853-XYXX |
| 85853-XYXLF OR 85853-XYXXLF |

- 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 ON PRESS-FIT TAIL:
85853-XYX IS SnPb
85853-XYXLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
 - 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
 - PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-073
 - AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
 - 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.)-NI--- 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.)-NI--- 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.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 85853-X01LF

| PLATING IN CONTACT AREA | | NOTES |
|-------------------------|-----------------------------------|------------|
| DASH NUMBER | PERFORMANCE LEVEL | - |
| -PYY OR -PYXX | 0.25 um GOLD MIN. | - |
| -NIYY OR -NIYXX | TELCORDIA CO (NXT) | - |
| -N5YY OR N5YXX | TELCORDIA UE (NXT) | - |
| -IYY OR -IYXX | TELCORDIA CO | - |
| -2YY OR -2YXX | TELECOM CLASS | - |
| -3YY OR -3YXX | IEC CLASS I | - |
| -5YY OR -5YXX | TELCORDIA UE | - |
| -NIYXLF OR -NIYXXLF | TELCORDIA CO (NXT) IEC CLASS I | SEE NOTE 9 |
| -N5YXLF OR N5YXXLF | TELCORDIA UE (NXT) | SEE NOTE 9 |
| -IYXLF OR -IYXXLF | TELCORDIA CO IEC CLASS I | SEE NOTE 9 |
| -2YXLF OR -2YXXLF | TELECOM CLASS | SEE NOTE 9 |
| -5YXLF OR -5YXXLF | TELCORDIA UE | SEE NOTE 9 |



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| | | | | | | | | | |
|-------------|----------------|----|------|---------------------------------------|---------------------|------------|----------------------------|--------------------|-------|
| mat'l code | | | | tolerances unless otherwise specified | | CUSTOMER | | FCI | |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | COPY | | www.fciconnect.com | |
| CX | | | | | 0.XX ±0.13 | projection | title METRAL SIGNAL HEADER | | |
| | | | | | .XXX ±.051 | | 2 MOD, 5 ROW PRESS-FIT | | |
| | | | | angles | 0° ±2° | | product family METRAL | | code |
| | | | | dr | T.BRUNGARD 11/19/99 | MM | size | dwg no | 213 |
| | | | | engr | M.STRAWSER 11/19/99 | scale | A | 85853 | sheet |
| | | | | chr | M.STRAWSER 11/19/99 | 1:1 | | | 15 |
| | | | | appd | M.STRAWSER 02/29/00 | | | | |
| sheet index | revision sheet | | | | | | | | |

cage code 22526



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- 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.);

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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

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.