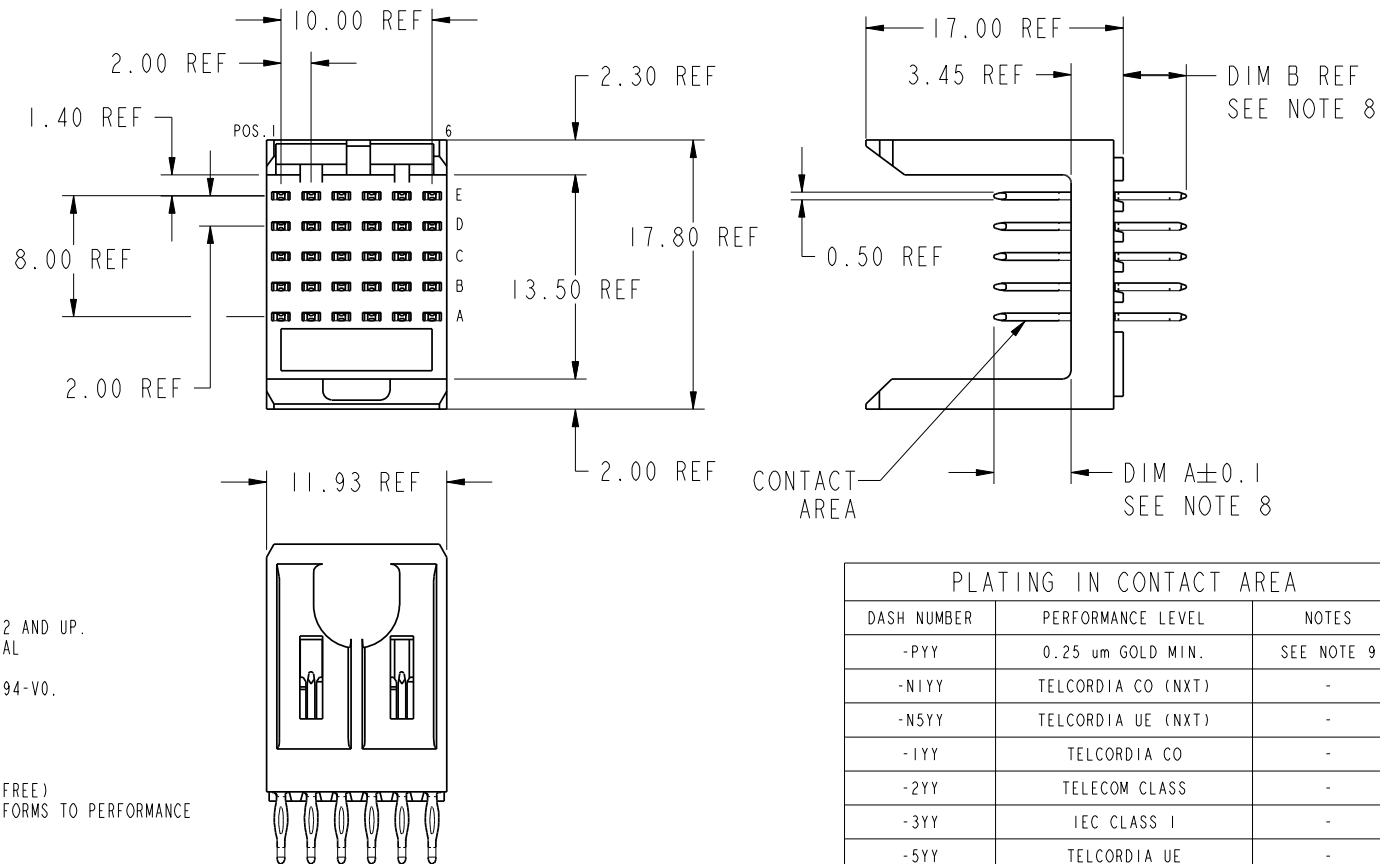


## PRODUCT NUMBER

88902-XXX

88902-XXYLF



## NOTES:

1. FOR DIM A, AND B SEE SHEET 2 AND UP.
2. BODY MATERIAL: LIQUID CRYSTAL POLYMER 30 % GLASS. FLAME RETARDANT ACC. UL 94-V0.
3. PIN MATERIAL: PHOSPHOR BRONZE
4. PLATING ON PRESS-FIT TAIL:  
88902-XXX IS SnPb  
88902-XXYLF IS Sn (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
5. PRODUCT MARKING:  
PART NUMBER DESIGNATION J& BATCH I.D.
6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPPLF
7. PRODUCT SPECIFICATION: GS-12-180  
APPLICATION SPECIFICATION: BUS-20-073
8. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
9. -Ayy PLATING HAS Au FLASH IN PRESS-FIT AREA (LEAD FREE)
10. THE PRODUCTS WHERE THE PART NUMBER ENDS IN 'LF' MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
11. FOR LEAD FREE PART NUMBERS, ADD AN 'LF' SUFFIX. EXAMPLE: 88902-X01LF.
12. 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 (DRAWING NO.)-N5--- WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACES OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM OF 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

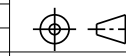
## PLATING IN CONTACT AREA

| DASH NUMBER | PERFORMANCE LEVEL                 | NOTES       |
|-------------|-----------------------------------|-------------|
| -PYY        | 0.25 um GOLD MIN.                 | SEE NOTE 9  |
| -NIYY       | TELCORDIA CO (NXT)                | -           |
| -N5YY       | TELCORDIA UE (NXT)                | -           |
| -1YY        | TELCORDIA CO                      | -           |
| -2YY        | TELECOM CLASS                     | -           |
| -3YY        | IEC CLASS I                       | -           |
| -5YY        | TELCORDIA UE                      | -           |
| -NIYYLF     | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 10 |
| -N5YYLF     | TELCORDIA UE (NXT)                | SEE NOTE 10 |
| -1YYLF      | TELCORDIA CO<br>IEC CLASS I       | SEE NOTE 10 |
| -2YYLF      | TELECOM CLASS                     | SEE NOTE 10 |
| -5YYLF      | TELCORDIA UE                      | SEE NOTE 10 |

| MATERIAL CODE |                |     |            | SEE NOTES |        | TOLERANCES UNLESS OTHERWISE SPECIFIED |      | CUSTOMER |      | FCI  |            |
|---------------|----------------|-----|------------|-----------|--------|---------------------------------------|------|----------|------|------|------------|
| lir           | ecn no.        | dr  | date       | linear    | angles | dr                                    | engr | chr      | appd | COPY | projection |
| X             | DG09-0256      | TER | 2009-08-19 |           |        |                                       |      |          |      |      |            |
| Y             | DG09-0306      | TER | 2009-09-14 |           |        |                                       |      |          |      |      |            |
| AA            | DG09-0366      | TER | 2009-11-24 |           |        |                                       |      |          |      |      |            |
| AB            | DG10-0165      | TER | 2010-05-05 |           |        |                                       |      |          |      |      |            |
| AC            | DG10-0243      | TER | 2010-06-28 |           |        |                                       |      |          |      |      |            |
| -             | -              | -   | -          |           |        |                                       |      |          |      |      |            |
| W             | DG09-0169      | TER | 2009-05-25 |           |        |                                       |      |          |      |      |            |
| sheet index   | revision sheet | AC  | AC         | AC        | AC     | AC                                    | AC   | AC       | AC   | AC   | AC         |
|               |                | 1   | 2          | 3         | 4      |                                       |      |          |      |      |            |

COPY

projection



MM

scale

2:1

www.fciconnect.com

title

METRAL SIGNAL HEADER

1 MOD, 5 ROW PRESS-FIT

product family

size

A

88902

code

213

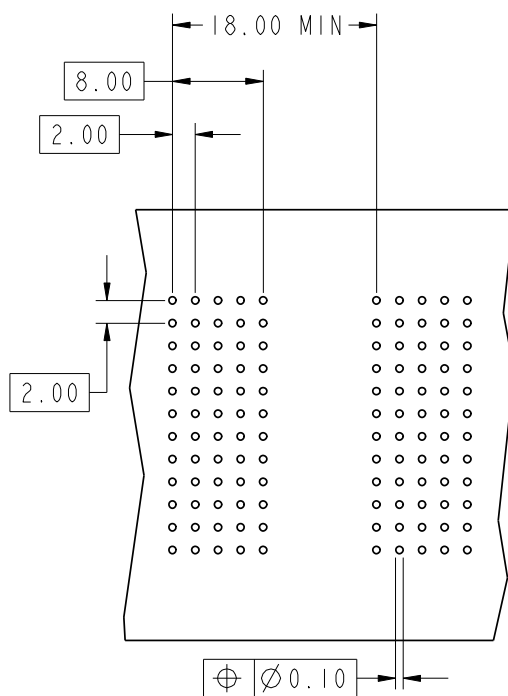
sheet

1 of 4

1 | 2

3 |

4



| KEY (SIGNAL PRESS-FIT) |              |              |
|------------------------|--------------|--------------|
| 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        |
| 19                     | 8.00         | 4.30         |
| 20                     | 8.00         | 13.60        |
| 39                     | 8.00         | 14.10        |
| 54                     | 5.00         | 11.55        |
| 55                     | 5.75         | 11.55        |
| 57                     | 7.25         | 11.55        |

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



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Copyright FCI.

| mat'l code |         |          |      | tolerances unless<br>otherwise specified |                      | CUSTOMER   |  | FCI                    |  |
|------------|---------|----------|------|------------------------------------------|----------------------|------------|--|------------------------|--|
| lir        | ecn no. | dr       | date | linear                                   | 0.X $\pm$ 0.3        | COPY       |  | www.fciconnect.com     |  |
| AC         |         |          |      |                                          | 0.XX $\pm$ 0.13      | projection |  | title                  |  |
|            |         |          |      |                                          | .XXX $\pm$ 0.051     |            |  | METRAL SIGNAL HEADER   |  |
|            |         |          |      | angles                                   | 0° $\pm$ 2°          |            |  | 1 MOD, 5 ROW PRESS-FIT |  |
|            |         |          |      | dr                                       | T. BRUNGARD 11/19/99 | MM         |  | product family         |  |
|            |         |          |      | enr                                      | M. STRAWSER 11/19/99 | scale      |  | METRAL                 |  |
|            |         |          |      | chr                                      | M. STRAWSER 11/19/99 | 3:2        |  | size                   |  |
|            |         |          |      | appd                                     | M. STRAWSER 02/29/00 | A          |  | dwg no                 |  |
| sheet      |         | revision |      |                                          |                      |            |  | 88902                  |  |
| index      |         | sheet    |      |                                          |                      |            |  | 213                    |  |
|            |         |          |      |                                          |                      |            |  | sheet                  |  |
|            |         |          |      |                                          |                      |            |  | 2                      |  |

1 | 2

Pro/E

PDM: Rev:AC

STATUS: Released

Printed: Jul 01, 2010



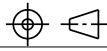
| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |      |
|-------------------------------------------|-----|------------------------|---|---|---|------|
|                                           |     | 1                      | 2 | 3 | 4 | 5    |
| 88902-X01<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2 | 2 | 2 | 1919 |
|                                           | D   | 2                      | 2 | 2 | 2 | 1919 |
|                                           | C   | 2                      | 1 | 2 | 3 | 2 2  |
|                                           | B   | 2                      | 2 | 2 | 2 | 1919 |
|                                           | A   | 2                      | 2 | 2 | 2 | 1919 |
| 88902-X02<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 6                      | 6 | 6 | 6 | 2020 |
|                                           | D   | 6                      | 6 | 6 | 6 | 2020 |
|                                           | C   | 6                      | 5 | 6 | 7 | 6 6  |
|                                           | B   | 6                      | 6 | 6 | 6 | 2020 |
|                                           | A   | 6                      | 6 | 6 | 6 | 2020 |
| 88902-X03<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 5                      | 3 | 3 | 3 | 3 3  |
|                                           | D   | 5                      | 3 | 3 | 3 | 3 3  |
|                                           | C   | 5                      | 3 | 3 | 3 | 3 3  |
|                                           | B   | 5                      | 3 | 3 | 3 | 3 3  |
|                                           | A   | 5                      | 3 | 3 | 3 | 3 3  |
| 88902-X04<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 7                      | 6 | 6 | 6 | 6 6  |
|                                           | D   | 7                      | 6 | 6 | 6 | 6 6  |
|                                           | C   | 7                      | 6 | 6 | 6 | 6 6  |
|                                           | B   | 7                      | 6 | 6 | 6 | 6 6  |
|                                           | A   | 7                      | 6 | 6 | 6 | 6 6  |
| 88902-X05<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 3                      | 3 | 2 | 4 | 4 19 |
|                                           | D   | 3                      | 3 | 2 | 4 | 4 19 |
|                                           | C   | 3                      | 3 | 2 | 4 | 4 19 |
|                                           | B   | 3                      | 3 | 2 | 4 | 4 19 |
|                                           | A   | 3                      | 3 | 2 | 4 | 4 19 |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |    |    |    |      |
|-------------------------------------------|-----|------------------------|----|----|----|------|
|                                           |     | 1                      | 2  | 3  | 4  | 5    |
| 88902-X06<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2  | 4  | 2 2  |
|                                           | D   | 2                      | 2  | 2  | 4  | 2 2  |
|                                           | C   | 2                      | 2  | 2  | 4  | 2 2  |
|                                           | B   | 2                      | 2  | 2  | 4  | 2 2  |
|                                           | A   | 2                      | 2  | 2  | 4  | 2 2  |
| 88902-X07<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 57                     | 55 | 55 | 55 | 5555 |
|                                           | D   | 57                     | 55 | 55 | 55 | 5555 |
|                                           | C   | 57                     | 55 | 55 | 55 | 5555 |
|                                           | B   | 57                     | 55 | 55 | 55 | 5555 |
|                                           | A   | 57                     | 55 | 55 | 55 | 5457 |
| 88902-X08<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 3                      | 2  | 2  | 2  | 2 2  |
|                                           | D   | 3                      | 2  | 2  | 2  | 2 2  |
|                                           | C   | 3                      | 2  | 2  | 2  | 2 2  |
|                                           | B   | 3                      | 2  | 2  | 2  | 2 2  |
|                                           | A   | 3                      | 1  | 2  | 2  | 2 2  |
| 88902-X09<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 39                     | 39 | 39 | 39 | 3939 |
|                                           | D   | 39                     | 39 | 39 | 39 | 3939 |
|                                           | C   | 39                     | 39 | 39 | 39 | 3939 |
|                                           | B   | 39                     | 39 | 39 | 39 | 3939 |
|                                           | A   | 39                     | 39 | 39 | 39 | 3939 |
| 88902-X10<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 4                      | 2  | 2  | 2  | 2 2  |
|                                           | D   | 4                      | 2  | 2  | 2  | 2 2  |
|                                           | C   | 4                      | 2  | 2  | 2  | 1 4  |
|                                           | B   | 4                      | 2  | 2  | 2  | 2 2  |
|                                           | A   | 4                      | 2  | 2  | 2  | 2 2  |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |     |
|-------------------------------------------|-----|------------------------|---|---|---|-----|
|                                           |     | 1                      | 2 | 3 | 4 | 5   |
| 88902-X11<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2 | 2 | 1 | 2 1 |
|                                           | D   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | C   | 2                      | 2 | 2 | 1 | 2 1 |
|                                           | B   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | A   | 2                      | 2 | 2 | 1 | 2 1 |
| 88902-X12<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 6                      | 6 | 6 | 5 | 6 5 |
|                                           | D   | 6                      | 6 | 6 | 6 | 6 6 |
|                                           | C   | 6                      | 6 | 6 | 5 | 6 5 |
|                                           | B   | 6                      | 6 | 6 | 6 | 6 6 |
|                                           | A   | 6                      | 6 | 6 | 5 | 6 5 |
| 88902-X13<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | - | 2 | - | 2 - |
|                                           | D   | -                      | 2 | - | 2 | - 2 |
|                                           | C   | 2                      | - | 2 | - | 2 - |
|                                           | B   | -                      | 2 | - | 2 | - 2 |
|                                           | A   | 2                      | - | 2 | - | 2 - |
| 88902-X14<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | D   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | C   | 19                     | 2 | 2 | 2 | 2 2 |
|                                           | B   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | A   | 2                      | 2 | 2 | 2 | 2 2 |
| 88902-X15<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | D   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | C   | 3                      | 2 | 4 | 2 | 2 4 |
|                                           | B   | 2                      | 2 | 2 | 2 | 2 2 |
|                                           | A   | 2                      | 4 | 2 | 2 | 2 2 |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |    |   |   |      |
|-------------------------------------------|-----|------------------------|----|---|---|------|
|                                           |     | 1                      | 2  | 3 | 4 | 5    |
| 88902-X16<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2 | 2 | 3 2  |
|                                           | D   | 2                      | 2  | 2 | 2 | 2 2  |
|                                           | C   | 3                      | 2  | 4 | 2 | 2 4  |
|                                           | B   | 2                      | 2  | 2 | 2 | 2 2  |
|                                           | A   | 2                      | 4  | 2 | 2 | 2 3  |
| 88902-X17<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 4                      | -  | 2 | - | 2 -  |
|                                           | D   | -                      | 2  | - | 2 | - 2  |
|                                           | C   | 2                      | -  | 4 | - | 4 -  |
|                                           | B   | -                      | 2  | - | 1 | - 2  |
|                                           | A   | 2                      | -  | 1 | - | 2 -  |
| 88902-X18<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | -  | 2 | - | 2 -  |
|                                           | D   | -                      | 2  | - | 2 | - 2  |
|                                           | C   | 2                      | -  | 4 | - | 4 -  |
|                                           | B   | -                      | 2  | - | 2 | - 2  |
|                                           | A   | 2                      | -  | 2 | - | 2 -  |
| 88902-X19<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 6                      | 6  | 6 | 6 | 6 6  |
|                                           | D   | 6                      | 6  | 6 | 6 | 6 6  |
|                                           | C   | 8                      | 6  | 6 | 6 | 6 6  |
|                                           | B   | 6                      | 6  | 6 | 6 | 2020 |
|                                           | A   | 5                      | 6  | 6 | 6 | 2020 |
| 88902-X20<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 6                      | 6  | 6 | 6 | 6 6  |
|                                           | D   | 6                      | 6  | 6 | 6 | 6 6  |
|                                           | C   | 6                      | 6  | 6 | 6 | 6 8  |
|                                           | B   | 20                     | 20 | 6 | 6 | 6 6  |
|                                           | A   | 20                     | 20 | 6 | 6 | 6 6  |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |    |   |    |      |
|-------------------------------------------|-----|------------------------|----|---|----|------|
|                                           |     | 1                      | 2  | 3 | 4  | 5    |
| 88902-X21<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | D   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | C   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | B   | 2                      | 19 | 2 | 19 | 2 2  |
|                                           | A   | 2                      | 19 | 2 | 19 | 2 2  |
| 88902-X22<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | D   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | C   | 4                      | 2  | 2 | 2  | 2 2  |
|                                           | B   | 2                      | 2  | 2 | 2  | 1919 |
|                                           | A   | 1                      | 2  | 2 | 2  | 1919 |
| 88902-X23<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | D   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | C   | 19                     | 2  | 2 | 2  | 2 2  |
|                                           | B   | 1                      | 2  | 2 | 2  | 2 2  |
|                                           | A   | 19                     | 2  | 2 | 2  | 2 2  |
| 88902-X24<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | D   | 2                      | 2  | 2 | 2  | 2 2  |
|                                           | C   | 2                      | 2  | 2 | 2  | 2 4  |
|                                           | B   | 19                     | 19 | 2 | 2  | 2 2  |
|                                           | A   | 19                     | 19 | 2 | 2  | 2 2  |
| 88902-X25<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2  | 2 | 2  | 2 19 |
|                                           | D   | 2                      | 2  | 2 | 2  | 2 19 |
|                                           | C   | 2                      | 2  | 2 | 2  | 2 19 |
|                                           | B   | 2                      | 2  | 2 | 2  | 2 19 |
|                                           | A   | 2                      | 2  | 2 | 2  | 2 19 |

|            |          |    |      |                                       |                     |                                                                                       |                        |                                                                                                          |  |
|------------|----------|----|------|---------------------------------------|---------------------|---------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------|--|
| mat'l code |          |    |      | tolerances unless otherwise specified |                     | CUSTOMER                                                                              |                        |  www.fciconnect.com |  |
| lfr        | ecn no.  | dr | date | linear                                | 0.X ±0.3            | COPY                                                                                  |                        |                                                                                                          |  |
| AC         |          |    |      |                                       | 0.XX ±0.13          | projection                                                                            | title                  |                                                                                                          |  |
|            |          |    |      |                                       | .XXX ±.051          |  | METRAL SIGNAL HEADER   |                                                                                                          |  |
|            |          |    |      | angles                                | 0° ±2°              | MM                                                                                    | 1 MOD, 5 ROW PRESS-FIT |                                                                                                          |  |
|            |          |    |      | dr                                    | T.BRUNGARD 11/19/99 | scale                                                                                 | product family         |                                                                                                          |  |
|            |          |    |      | enrg                                  | M.STRAWSER 11/19/99 | 1:1                                                                                   | METRAL                 |                                                                                                          |  |
|            |          |    |      | chr                                   | M.STRAWSER 11/19/99 |                                                                                       | size                   |                                                                                                          |  |
|            |          |    |      | appd                                  | M.STRAWSER 02/29/00 |                                                                                       | dwg no                 |                                                                                                          |  |
| sheet      | revision |    |      |                                       |                     |                                                                                       |                        | A                                                                                                        |  |
| index      | sheet    |    |      |                                       |                     |                                                                                       |                        | 88902                                                                                                    |  |
|            |          |    |      |                                       |                     |                                                                                       |                        | 213                                                                                                      |  |
|            |          |    |      |                                       |                     |                                                                                       |                        | sheet                                                                                                    |  |
|            |          |    |      |                                       |                     |                                                                                       |                        | 3                                                                                                        |  |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|-------------------------------------------|-----|------------------------|---|---|---|---|---|
|                                           |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88902-X26<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 1                      | 2 | 2 | 2 | 2 | 1 |
|                                           | D   | 2                      | 2 | 2 | 2 | 2 | 2 |
|                                           | C   | 2                      | 2 | 2 | 2 | 2 | 2 |
|                                           | B   | 2                      | 2 | 2 | 2 | 2 | 2 |
|                                           | A   | 1                      | 2 | 2 | 2 | 2 | 1 |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|-------------------------------------------|-----|------------------------|---|---|---|---|---|
|                                           |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88902-X27<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 5                      | 5 | 5 | 1 | 1 | 1 |
|                                           | D   | 5                      | 5 | 5 | 1 | 1 | 1 |
|                                           | C   | 5                      | 5 | 5 | 1 | 1 | 1 |
|                                           | B   | 5                      | 5 | 5 | 1 | 1 | 1 |
|                                           | A   | 5                      | 5 | 5 | 1 | 1 | 1 |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |    |    |    |    |    |
|-------------------------------------------|-----|------------------------|----|----|----|----|----|
|                                           |     | 1                      | 2  | 3  | 4  | 5  | 6  |
| 88902-X28<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 19                     | 2  | 19 | 2  | 2  | 1  |
|                                           | D   | 2                      | 19 | 2  | 19 | 19 | 2  |
|                                           | C   | 19                     | 2  | 19 | 2  | 2  | 19 |
|                                           | B   | 2                      | 19 | 2  | 19 | 19 | 2  |
|                                           | A   | 19                     | 2  | 19 | 2  | 2  | 19 |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|-------------------------------------------|-----|------------------------|---|---|---|---|---|
|                                           |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88902-X29<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2 | 2 | 2 | 2 | 2 |
|                                           | D   | 2                      | 2 | 2 | 2 | 2 | 2 |
|                                           | C   | 2                      | 2 | 2 | 2 | 2 | 2 |
|                                           | B   | 2                      | 2 | 1 | 2 | 2 | 2 |
|                                           | A   | 2                      | 2 | 2 | 2 | 2 | 2 |

| METRAL<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|-------------------------------------------|-----|------------------------|---|---|---|---|---|
|                                           |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88902-X30<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 2                      | 2 | 2 | 1 | 2 | 4 |
|                                           | 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<br>P/N                             | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|-------------------------------------------|-----|------------------------|---|---|---|---|---|
|                                           |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 88902-X31<br>SEE NOTE 11<br>FOR LEAD FREE | E   | 4                      | 2 | 3 | 3 | 2 | 4 |
|                                           | D   | 4                      | 2 | 3 | 3 | 2 | 4 |
|                                           | C   | 4                      | 2 | 3 | 3 | 2 | 4 |
|                                           | B   | 4                      | 2 | 3 | 3 | 2 | 4 |
|                                           | A   | 4                      | 2 | 3 | 3 | 2 | 4 |



| mat'l code  |                |    |      | tolerances unless<br>otherwise specified |                     | CUSTOMER   |      |
|-------------|----------------|----|------|------------------------------------------|---------------------|------------|------|
| lfr         | ecn no.        | dr | date | linear                                   | 0.X ±0.3            | projection | COPY |
| AC          |                |    |      |                                          | 0.XX ±0.13          |            |      |
|             |                |    |      |                                          | .XXX ±.051          |            |      |
|             |                |    |      | angles                                   | 0° ±2°              |            |      |
|             |                |    |      | dr                                       | T.BRUNGARD 11/19/99 |            |      |
|             |                |    |      | enrg                                     | M.STRAWSER 11/19/99 |            |      |
|             |                |    |      | chr                                      | M.STRAWSER 11/19/99 | scale      |      |
|             |                |    |      | appd                                     | M.STRAWSER 02/29/00 |            |      |
| sheet index | revision sheet |    |      |                                          |                     |            |      |



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title METRAL SIGNAL HEADER  
1 MOD, 5 ROW PRESS-FIT

product family METRAL

code 213

size A

dwg no 88902

sheet 4

cage code 28506

STATUS Released

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