



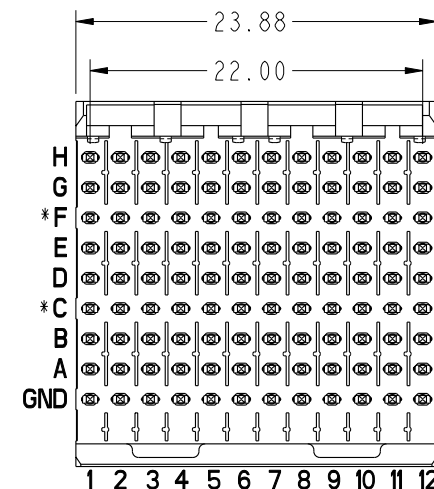
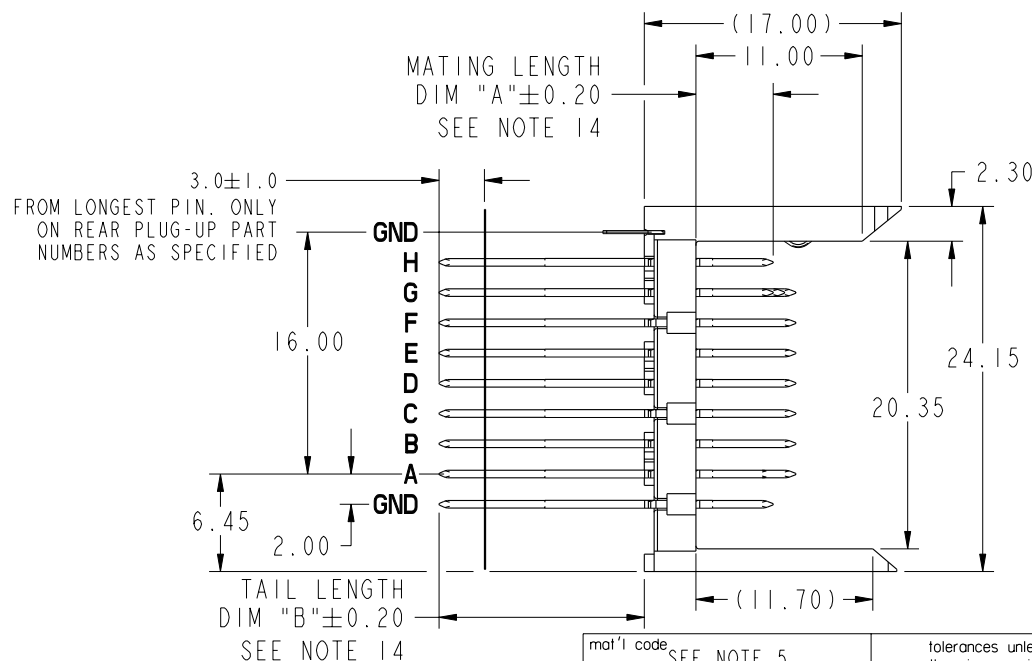
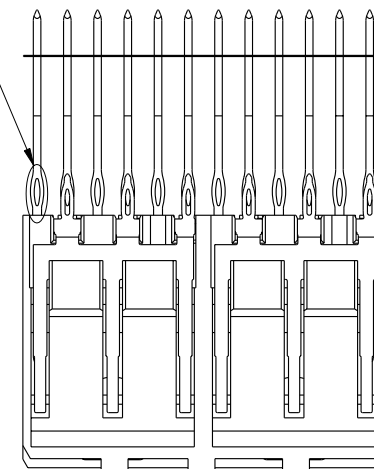
| PRODUCT<br>NUMBER | PLATING<br>PERFORMANCE<br>LEVEL | FOR REAR PLUG-UP<br>APPLICATIONS<br>USE SHROUD |
|-------------------|---------------------------------|------------------------------------------------|
| 63784-1YYY        | TELCORDIA CO                    | 74993-102                                      |
| 63784-1YYLFF      | TELCORDIA CO                    | 84625-102LF                                    |
| 63784-5YYY        | TELCORDIA UE                    | 74993-502                                      |
| 63784-5YYLFF      | TELCORDIA UE                    | 84625-502LF                                    |
| 63784-9YYY        | TELCORDIA CO                    | 74993-102                                      |
| 63784-9YYLFF      | TELCORDIA CO                    | 84625-102LF                                    |
| 63784-AYYY        | CUSTOMER SPECIAL                | 74993-102                                      |
| 63784-AYYLFF      | CUSTOMER SPECIAL                | 84625-102LF                                    |

EYE OF NEEDLE  
PRESS FIT SECTION

BABY-H  
PRESS FIT SECTION

DETAIL A  
SCALE 4:1  
SEE NOTE 16

SEE DETAIL A



| mat'l code SEE NOTE 5 |                   |     |            | tolerances unless<br>otherwise specified |                        |    | CUSTOMER   |    |    | FCI                                                                            |    |  |
|-----------------------|-------------------|-----|------------|------------------------------------------|------------------------|----|------------|----|----|--------------------------------------------------------------------------------|----|--|
| ltr                   | ecn no.           | dr  | date       | linear                                   | 0.X $\pm 0.3$          |    | COPY       |    |    | www.fciconnect.com                                                             |    |  |
| AH                    | V06-0498          | DCH | 2006-05-30 |                                          | 0.XX $\pm 0.13$        |    | projection |    |    | title<br>VERTICAL SIGNAL HDR 8 ROW<br>P.F. 96 POS. SELECT LOAD EXT.            |    |  |
| AJ                    | V07-0169          | DCH | 2007-03-27 |                                          | .XXX $\pm 0.051$       |    |            |    |    |                                                                                |    |  |
| AK                    | V08-0016          | HTB | 2008-01-10 | angles                                   | 0° $\pm 2^\circ$       |    |            |    |    | product family METRAL 1000 code<br>size dwg no 213<br>A 63784 sheet<br>1 of 10 |    |  |
| AL                    | V08-0051          | LP  | 2008-02-19 | dr                                       | E. KROPER. 2001-01-10  |    | MM         |    |    |                                                                                |    |  |
| -                     | -                 | -   | -          | engr                                     | J. VOLSTORF 2001-01-10 |    |            |    |    | cage code 22526                                                                |    |  |
| AF                    | V05-1022          | LP  | 2005-11-08 | chr                                      | J. VOLSTORF 2001-01-10 |    | scale      |    |    |                                                                                |    |  |
| AG                    | V05-1125          | LP  | 2005-12-19 | appd                                     | J. VOLSTORF 2001-01-10 |    | 1:1        |    |    | 4                                                                              |    |  |
| sheet<br>index        | revision<br>sheet | AL  | AL         | AL                                       | AL                     | AL | AL         | AL | AL |                                                                                |    |  |
|                       |                   | 1   | 2          | 3                                        | 4                      | 5  | 6          | 7  | 8  | 9                                                                              | 10 |  |

Pro/E

PDM: Rev:AL

STATUS: Released

Printed: May 13, 2011



| PIN NO. | DIM A<br>MATING<br>LENGTH | DIM B<br>TAIL<br>LENGTH | PCB THICKNESS RANGE<br>ACCOMMODATED BY PIN'S TAIL LENGTH |             |                                                         |             |             |
|---------|---------------------------|-------------------------|----------------------------------------------------------|-------------|---------------------------------------------------------|-------------|-------------|
|         |                           |                         | WHEN MATING TO A 74981<br>SERIES RECEPTACLE              |             | WHEN MATING TO A 52066 SERIES<br>METRAL 4000 RECEPTACLE |             |             |
|         |                           |                         | ROWS A,B,<br>C,D,E,F,G & H                               | GROUND ROW  | ROWS:A,B,<br>D,E,G & H                                  | ROW C & F   | GROUND ROW  |
| 01*     | 5.00                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 22      |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 30      |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 05      |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 35      |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 48      |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 40      |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 65      |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 09      |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |
| 02*     | 5.75                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 44      |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 31      |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 06      |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 36      |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 49      |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 25      |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 66      |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 10      |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |
| 03*     | 6.50                      | 4.30                    | 1.60 MIN                                                 | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 45      |                           | 12.20                   | 2.95 - 3.80                                              | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 32      |                           | 12.95                   | 2.95 - 4.55                                              | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 07      |                           | 13.70                   | 2.95 - 5.30                                              | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 37      |                           | 14.45                   | 3.05 - 6.05                                              | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 50      |                           | 15.20                   | 3.80 - 6.80                                              | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 41      |                           | 15.70                   | 4.30 - 7.30                                              | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 24      |                           | 16.40                   | 5.00 - 8.00                                              | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 11      |                           | 17.10                   | 5.70 - 8.70                                              | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |

|                          |                   |    |      |                                          |             |                          |                                                                     |                           |             |            |
|--------------------------|-------------------|----|------|------------------------------------------|-------------|--------------------------|---------------------------------------------------------------------|---------------------------|-------------|------------|
| mat'l code<br>SEE NOTE 5 |                   |    |      | tolerances unless<br>otherwise specified |             | CUSTOMER                 |                                                                     | FCI<br>www.fciconnect.com |             |            |
| ltr                      | ecn no.           | dr | date | linear                                   | 0.X ±0.3    | projection<br>           | title<br>VERTICAL SIGNAL HDR 8 ROW<br>P.F. 96 POS. SELECT LOAD EXT. |                           |             |            |
| AL                       |                   |    |      |                                          | 0.XX ±0.13  |                          |                                                                     |                           |             |            |
|                          |                   |    |      |                                          | .XXX ±.051  |                          |                                                                     |                           |             |            |
|                          |                   |    |      | angles                                   | 0° ±2°      | MM<br>←→<br>scale<br>1:1 | product family                                                      |                           | METRAL 1000 |            |
|                          |                   |    |      | dr                                       | E. KROPER.  |                          | 2001-01-10                                                          | size                      | dwg no      | 213        |
|                          |                   |    |      | enrg                                     | J. VOLSTORF |                          | 2001-01-10                                                          | A                         | 63784       | sheet<br>2 |
|                          |                   |    |      | chr                                      | J. VOLSTORF |                          | 2001-01-10                                                          |                           |             |            |
|                          |                   |    |      | appd                                     | J. VOLSTORF | 2001-01-10               |                                                                     |                           |             |            |
| sheet<br>index           | revision<br>sheet |    |      |                                          |             |                          |                                                                     |                           |             |            |



| PIN NO. | DIM A<br>MATING<br>LENGTH | DIM B<br>TAIL<br>LENGTH | PCB THICKNESS RANGE<br>ACCOMMODATED BY PIN LENGTH |             |                                                         |             |             |
|---------|---------------------------|-------------------------|---------------------------------------------------|-------------|---------------------------------------------------------|-------------|-------------|
|         |                           |                         | WHEN MATING TO A 74981<br>SERIES RECEPTACLE       |             | WHEN MATING TO A 52066 SERIES<br>METRAL 4000 RECEPTACLE |             |             |
|         |                           |                         | ROWS A,B,C,<br>D,E,F,G & H                        | GROUND ROW  | ROWS:A,B,<br>D,E,G & H                                  | ROW C & F   | GROUND ROW  |
| 04*     | 7.25                      | 4.30                    | 1.60 MIN                                          | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 46      |                           | 12.20                   | 2.95 - 3.80                                       | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 33      |                           | 12.95                   | 2.95 - 4.55                                       | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 08      |                           | 13.70                   | 2.95 - 5.30                                       | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 38      |                           | 14.45                   | 3.05 - 6.05                                       | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 51      |                           | 15.20                   | 3.80 - 6.80                                       | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 42      |                           | 15.70                   | 4.30 - 7.30                                       | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 67      |                           | 16.40                   | 5.00 - 8.00                                       | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 12      |                           | 17.10                   | 5.70 - 8.70                                       | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |
| 19*     | 8.00                      | 4.30                    | 1.60 MIN                                          | 1.60 MIN    | 1.60 MIN                                                | 1.60 MIN    | 1.60 MIN    |
| 47      |                           | 12.20                   | 2.95 - 3.80                                       | 2.95 - 4.20 | 2.95 - 3.80                                             | 2.95 - 3.80 | 2.95 - 4.20 |
| 34      |                           | 12.95                   | 2.95 - 4.55                                       | 3.25 - 4.95 | 2.95 - 4.55                                             | 2.95 - 4.55 | 3.25 - 4.95 |
| 20      |                           | 13.70                   | 2.95 - 5.30                                       | 4.00 - 5.70 | 3.30 - 5.30                                             | 2.95 - 5.30 | 4.00 - 5.70 |
| 39      |                           | 14.45                   | 3.05 - 6.05                                       | 4.75 - 6.45 | 4.05 - 6.05                                             | 3.05 - 6.05 | 4.75 - 6.45 |
| 52      |                           | 15.20                   | 3.80 - 6.80                                       | 5.50 - 7.20 | 4.80 - 6.80                                             | 3.80 - 6.80 | 5.50 - 7.20 |
| 43      |                           | 15.70                   | 4.30 - 7.30                                       | 6.00 - 7.70 | 5.30 - 7.30                                             | 4.30 - 7.30 | 6.00 - 7.70 |
| 68      |                           | 16.40                   | 5.00 - 8.00                                       | 6.70 - 8.40 | 6.00 - 8.00                                             | 5.00 - 8.00 | 6.70 - 8.40 |
| 21      |                           | 17.10                   | 5.70 - 8.70                                       | 7.40 - 9.10 | 6.70 - 8.70                                             | 5.70 - 8.70 | 7.40 - 9.10 |

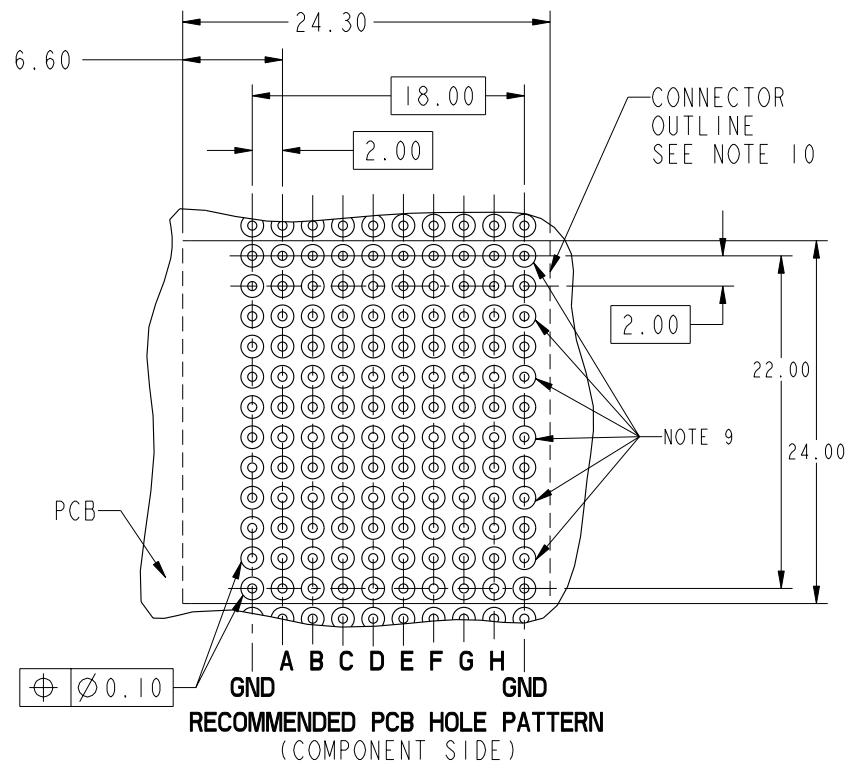
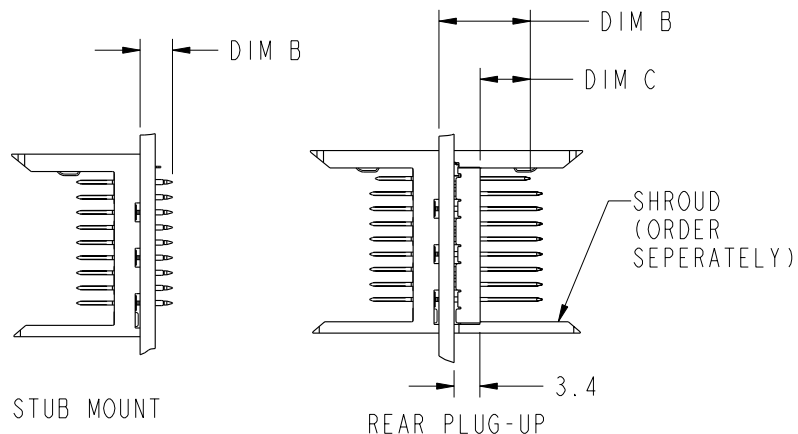
\* STUB PINS - NO REAR PLUG-UP

\*\* THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF  
PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

|                          |                |    |      |                                          |             |            |                     |                |                                                            |                                                                     |
|--------------------------|----------------|----|------|------------------------------------------|-------------|------------|---------------------|----------------|------------------------------------------------------------|---------------------------------------------------------------------|
| mat'l code<br>SEE NOTE 5 |                |    |      | tolerances unless<br>otherwise specified |             |            | CUSTOMER            |                | <a href="http://www.fciconnect.com">www.fciconnect.com</a> |                                                                     |
| lfr                      | ecn no.        | dr | date | linear                                   | 0.X ±0.3    |            | projection          |                |                                                            | title<br>VERTICAL SIGNAL HDR 8 ROW<br>P.F. 96 POS. SELECT LOAD EXT. |
| AL                       |                |    |      |                                          | 0.XX ±0.13  |            |                     |                |                                                            |                                                                     |
|                          |                |    |      |                                          | .XXX ±.051  |            |                     |                |                                                            |                                                                     |
|                          |                |    |      | angles                                   | 0° ±2°      |            | <br>MM<br>scale 1:1 | product family |                                                            | code                                                                |
|                          |                |    |      | dr                                       | E. KROPER.  | 2001-01-10 |                     | METRAL 1000    |                                                            | 213                                                                 |
|                          |                |    |      | enrg                                     | J. VOLSTORF | 2001-01-10 |                     | size           | dwg no                                                     | sheet                                                               |
|                          |                |    |      | chr                                      | J. VOLSTORF | 2001-01-10 |                     | A              | 63784                                                      | 3                                                                   |
|                          |                |    |      | appd                                     | J. VOLSTORF | 2001-01-10 |                     |                |                                                            |                                                                     |
| sheet index              | revision sheet |    |      |                                          |             |            |                     |                |                                                            |                                                                     |



PRODUCT NUMBER  
SEE SHEET 1



\* SEE PRINT 58351 FOR  
ADDITIONAL PCB INFO.

| PRESS-FIT HOLES *              | OPTION 1                    |
|--------------------------------|-----------------------------|
| HOLE DIAMETER<br>AFTER PLATING | Ø0.65-0.80                  |
| DRILLED HOLE                   | Ø0.81-0.86<br>(Ø0.85 DRILL) |
| COPPER PLATING                 | 0.025 MIN                   |
| SnPb PLATING                   | 0.005-0.015                 |

|                          |                   |    |      |                                          |                        |  |            |  |                                                                              |  |
|--------------------------|-------------------|----|------|------------------------------------------|------------------------|--|------------|--|------------------------------------------------------------------------------|--|
| mat'l code<br>SEE NOTE 5 |                   |    |      | tolerances unless<br>otherwise specified |                        |  | CUSTOMER   |  | <br>www.fciconnect.com                                                       |  |
| ltr                      | ecr no.           | dr | date | linear                                   | 0.X ±0.3               |  | COPY       |  |                                                                              |  |
| AL                       |                   |    |      | linear                                   | 0.XX ±0.13             |  | projection |  | <br>title<br>VERTICAL SIGNAL HDR 8 ROW<br>P.F. 96 POS. SELECT LOAD EXT.      |  |
|                          |                   |    |      | angles                                   | .XXX ±.051             |  |            |  |                                                                              |  |
|                          |                   |    |      |                                          | 0° ±2°                 |  |            |  | <br>product family METRAL 1000 code<br>size dwg no 213<br>A 63784 sheet<br>4 |  |
|                          |                   |    |      | dr                                       | E. KROPER. 2001-01-10  |  | MM         |  |                                                                              |  |
|                          |                   |    |      | enrg                                     | J. VOLSTORF 2001-01-10 |  | scale      |  | cage code 22526                                                              |  |
|                          |                   |    |      | chr                                      | J. VOLSTORF 2001-01-10 |  | 1:1        |  |                                                                              |  |
|                          |                   |    |      | appd                                     | J. VOLSTORF 2001-01-10 |  |            |  | 4                                                                            |  |
| sheet<br>index           | revision<br>sheet |    |      |                                          |                        |  |            |  |                                                                              |  |

Pro/E

PDM: Rev:AL

STATUS: Released

Printed: May 13, 2011

PRODUCT NUMBER

SEE SHEET 1

## NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CURCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994
5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.  
PIN MATERIAL: PHOSPHER BRONZE  
GROUND SPRING MATERIAL: PHOSPHER BRONZE
6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS SnPb.
7. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.  
FOR MATING WITH METRAL 1000 RECEPTACLES  
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-H  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A  
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-H  
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A  
FOR MATING WITH METRAL 4000 RECEPTACLES  
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D, E, G & H  
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C & F  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A  
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D, E, G & H  
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C & F  
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLIANT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD. THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.

9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.

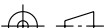
11. CURRENT RATING : 1 AMP PER PIN

12. TEMPERATURE RANGE : -55°C TO +105°C

13. P/N 63784-XXXXLF



14. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
  15. PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
16. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

|                       |         |                |      |                                       |             |            |  |          |                                                                                       |                                                                                       |                                                                     |                    |             |  |            |  |
|-----------------------|---------|----------------|------|---------------------------------------|-------------|------------|--|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------|-------------|--|------------|--|
| mat'l code SEE NOTE 5 |         |                |      | tolerances unless otherwise specified |             |            |  | CUSTOMER |                                                                                       |  |                                                                     | www.fciconnect.com |             |  |            |  |
| ltr                   | ecn no. | dr             | date | linear                                | 0. X ±0.3   |            |  |          | COPY                                                                                  |                                                                                       | title<br>VERTICAL SIGNAL HDR 8 ROW<br>P.F. 96 POS. SELECT LOAD EXT. |                    |             |  |            |  |
| AL                    |         |                |      |                                       | 0. XX ±0.13 |            |  |          | projection                                                                            |                                                                                       |                                                                     |                    |             |  |            |  |
|                       |         |                |      |                                       | .XXX ±.051  |            |  |          |  |                                                                                       |                                                                     |                    |             |  |            |  |
|                       |         |                |      | angles                                | 0° ±2°      |            |  |          |  |                                                                                       | product family                                                      |                    | METRAL 1000 |  | code       |  |
|                       |         |                |      | dr                                    | E. KROPER.  | 2001-01-10 |  | size     |                                                                                       |                                                                                       | dwg no                                                              |                    | 213         |  |            |  |
|                       |         |                |      | enrg                                  | J. VOLSTORF | 2001-01-10 |  | scale    |                                                                                       |                                                                                       | A                                                                   |                    | 63784       |  | sheet<br>5 |  |
|                       |         |                |      | chr                                   | J. VOLSTORF | 2001-01-10 |  |          |                                                                                       |                                                                                       |                                                                     |                    |             |  |            |  |
|                       |         |                |      | appd                                  | J. VOLSTORF | 2001-01-10 |  |          |                                                                                       |                                                                                       |                                                                     |                    |             |  |            |  |
| sheet index           |         | revision sheet |      |                                       |             |            |  |          |                                                                                       |                                                                                       |                                                                     |                    |             |  |            |  |



| METRAL<br>P/N | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|---------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|               |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X001    | H   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|               | G   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 03 | 03 | 03 | 01 | 19 |
|               | F   | 01           | 01 | 01 | 01 | 01 | 19 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | E   | 01           | 01 | 01 | 01 | 01 | 19 | 01 | 03 | 03 | 03 | 01 | 19 |
|               | D   | 01           | 01 | 01 | 01 | 01 | 19 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | C   | 01           | 01 | 01 | 01 | 01 | 19 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | B   | 01           | 01 | 01 | 01 | 01 | 19 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE

| METRAL<br>P/N     | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                   |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X002<br>RPU | H   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | G   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | F   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | E   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 3.30-5.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

| METRAL<br>P/N     | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                   |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X003<br>RPU | H   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | G   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | F   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | E   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | D   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | C   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | B   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | A   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 3.30-5.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

| METRAL<br>P/N | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|---------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|               |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X004    | H   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|               | G   | 01           | 01 | 01 | 01 | 01 | 01 | 03 | 03 | 03 | 03 | 01 | 19 |
|               | F   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | E   | 01           | 01 | 01 | 01 | 01 | 01 | 03 | 03 | 03 | 03 | 01 | 19 |
|               | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 19 |
|               | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE

| METRAL<br>P/N     | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                   |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X005<br>RPU | H   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | G   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | F   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | E   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

FOR REAR  
PLUG UP  
APPLICATIONS,  
PCB THICK-  
NESS RANGE: 2.95-5.30  
WHEN MATED TO  
METRAL 1000  
RECEPT. AND  
3.30-5.30 WHEN  
MATED TO  
METRAL 4000  
RECEPT.  
(2.30 MIN  
IN NON-  
STANDARD  
REAR PLUG-UP  
APPLICATIONS)

| METRAL<br>P/N     | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                   |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X006<br>RPU | H   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | G   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | F   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | E   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                   | D   | 19           | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                   | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                   | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND THIS CONFIGURATION  
CANNOT BE MATED TO A  
METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

| METRAL<br>P/N | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|---------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|               |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X007    | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | F   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | E   | 03           | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|               | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|---------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|               |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X008    | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 01 | 01 | 01 | 01 |
|               | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | F   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|               | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N     | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                   |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X009<br>RPU | H   | 49           | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
|                   | G   | 49           | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
|                   | F   | 49           | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
|                   | 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   | 35           | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
|                   | GND | 36           | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 4.75  
-6.05 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 4.80-6.05 WHEN MATED  
TO METRAL 4000 RECEPT.

|                          |  |         |  |                                          |  |      |  |          |  |                        |  |            |  |                               |  |
|--------------------------|--|---------|--|------------------------------------------|--|------|--|----------|--|------------------------|--|------------|--|-------------------------------|--|
| mat'l code<br>SEE NOTE 5 |  |         |  | tolerances unless<br>otherwise specified |  |      |  | CUSTOMER |  | www.fciconnect.com     |  |            |  |                               |  |
| ltr                      |  | ecn no. |  | dr                                       |  | date |  | linear   |  | 0.X ±0.3               |  | projection |  | title                         |  |
| AL                       |  |         |  |                                          |  |      |  |          |  | 0.XX ±0.13             |  |            |  | VERTICAL SIGNAL HDR 8 ROW     |  |
|                          |  |         |  |                                          |  |      |  | angles   |  | .XXX ±0.051            |  |            |  | P.F. 96 POS. SELECT LOAD EXT. |  |
|                          |  |         |  |                                          |  |      |  |          |  | 0° ±2°                 |  |            |  |                               |  |
|                          |  |         |  |                                          |  |      |  | dr       |  | E. KROPER. 2001-01-10  |  |            |  | product family METRAL 1000    |  |
|                          |  |         |  |                                          |  |      |  | enrg     |  | J. VOLSTORF 2001-01-10 |  |            |  | code                          |  |
|                          |  |         |  |                                          |  |      |  | chr      |  | J. VOLSTORF 2001-01-10 |  | size       |  | 213                           |  |
| </                       |  |         |  |                                          |  |      |  |          |  |                        |  |            |  |                               |  |



A

B

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X010<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 |
|                                                | F   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X011<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 02 |
|                                                | F   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | E   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | D   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | C   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | B   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | A   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X012<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 45           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 22 | 22 |
|                                                       | G   | 45           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
|                                                       | F   | 22           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
|                                                       | E   | 45           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
|                                                       | D   | 45           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
|                                                       | C   | 45           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
|                                                       | B   | 45           | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
|                                                       | A   | 47           | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
|                                                       | GND | 22           | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X013<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | F   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | E   | 03           | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X014<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 01 |
|                                                | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | F   | 01           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | E   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | D   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | C   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | B   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                | A   | 19           | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

FOR REAR PLUG UP  
APPLICATIONS. PCB  
THICKNESS RANGE: 2.95  
-3.80 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND THIS CONFIGURATION  
CANNOT BE MATED TO A  
METRAL 4000 RECEPT.

CAN NOT  
BE MATED  
TO A  
METRAL  
4000  
RECEPTACLE

|                          |         |                |      |                                          |                        |  |  |          |                                                                                                     |              |                              |                                                                                                             |  |  |             |  |  |  |       |  |
|--------------------------|---------|----------------|------|------------------------------------------|------------------------|--|--|----------|-----------------------------------------------------------------------------------------------------|--------------|------------------------------|-------------------------------------------------------------------------------------------------------------|--|--|-------------|--|--|--|-------|--|
| mat'l code<br>SEE NOTE 5 |         |                |      | tolerances unless<br>otherwise specified |                        |  |  | CUSTOMER |                                                                                                     |              |                              | <br>www.fciconnect.com |  |  |             |  |  |  |       |  |
| ltr                      | ecn no. | dr             | date | linear                                   | 0.X ±0.3               |  |  |          | projection<br> | COPY         | title                        |                                                                                                             |  |  |             |  |  |  |       |  |
| AL                       |         |                |      |                                          | 0.XX ±0.13             |  |  |          |                                                                                                     |              | VERTICAL SIGNAL HDR 8 ROW    |                                                                                                             |  |  |             |  |  |  |       |  |
|                          |         |                |      |                                          | .XXX ±.051             |  |  |          |                                                                                                     |              | P.F. 96 POS. SELECT LOAD EXT |                                                                                                             |  |  |             |  |  |  |       |  |
|                          |         |                |      | angles                                   | 0° ±2°                 |  |  |          |                | scale<br>1:1 | product family               |                                                                                                             |  |  | METRAL 1000 |  |  |  | code  |  |
|                          |         |                |      |                                          | E. KROPER. 2001-01-10  |  |  |          |                                                                                                     |              | size                         |                                                                                                             |  |  | dwg no      |  |  |  | 213   |  |
|                          |         |                |      |                                          | J. VOLSTORF 2001-01-10 |  |  |          |                                                                                                     |              | A                            |                                                                                                             |  |  | 63784       |  |  |  | sheet |  |
|                          |         |                |      | dr                                       | J. VOLSTORF 2001-01-10 |  |  |          |                                                                                                     |              |                              |                                                                                                             |  |  |             |  |  |  |       |  |
|                          |         |                |      | enrg                                     | J. VOLSTORF 2001-01-10 |  |  |          |                                                                                                     |              |                              |                                                                                                             |  |  |             |  |  |  |       |  |
|                          |         |                |      | chr                                      | J. VOLSTORF 2001-01-10 |  |  |          |                                                                                                     |              |                              |                                                                                                             |  |  |             |  |  |  |       |  |
|                          |         |                |      | appd                                     | J. VOLSTORF 2001-01-10 |  |  |          |                                                                                                     |              |                              |                                                                                                             |  |  |             |  |  |  |       |  |
| sheet index              |         | revision sheet |      |                                          |                        |  |  |          |                                                                                                     |              |                              |                                                                                                             |  |  |             |  |  |  |       |  |

Pro/E

3

cage code 22526

4

PDM: Rev:AL

STATUS: Released

Printed: May 13, 2011

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS  
5.50 TO 6.80

CAN NOT BE MATED  
TO A METRAL 4000  
RECEPTACLE

A

B





| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X019<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 02 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | E   | 11           | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|                                                       | D   | 41           | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
|                                                       | C   | 24           | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
|                                                       | B   | 41           | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
|                                                       | A   | 24           | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
|                                                       | GND | 49           | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X020<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 41           | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
|                                                       | D   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
|                                                       | C   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                       | B   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
|                                                       | A   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                       | GND | 06           | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X021<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 02 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 41           | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 03 | 03 | 03 | 03 |
|                                                       | D   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 03 | 03 |
|                                                       | C   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 03 | 03 |
|                                                       | B   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 03 | 03 |
|                                                       | A   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 03 | 03 |
|                                                       | GND | 06           | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 02 | 02 | 02 | 02 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X022<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 41           | 41 | 41 | 41 | 03 | 03 | 03 | 03 | 41 | 41 | 41 | 41 |
|                                                       | D   | 37           | 37 | 37 | 37 | 03 | 03 | 03 | 03 | 37 | 37 | 37 | 37 |
|                                                       | C   | 50           | 50 | 50 | 50 | 03 | 03 | 03 | 03 | 50 | 50 | 50 | 50 |
|                                                       | B   | 37           | 37 | 37 | 37 | 03 | 03 | 03 | 03 | 37 | 37 | 37 | 37 |
|                                                       | A   | 50           | 50 | 50 | 50 | 03 | 03 | 03 | 03 | 50 | 50 | 50 | 50 |
|                                                       | GND | 06           | 06 | 06 | 06 | 02 | 02 | 02 | 02 | 06 | 06 | 06 | 06 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X023<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 03           | 03 | 03 | 03 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
|                                                       | D   | 03           | 03 | 03 | 03 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
|                                                       | C   | 03           | 03 | 03 | 03 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                       | B   | 03           | 03 | 03 | 03 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
|                                                       | A   | 03           | 03 | 03 | 03 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                       | GND | 02           | 02 | 02 | 02 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 5.70  
-7.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 6.70-7.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 4.30  
-5.70 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 5.30-5.70 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 4.30  
-5.70 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 5.30-5.70 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 4.30  
-5.70 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 5.30-5.70 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)

FOR REAR  
PLUG UP  
APPLICATIONS,  
PCB TH'K  
RANGE: 4.30-5.70  
WHEN MATED TO  
METRAL 1000  
RECEPT. AND  
5.30-5.70 WHEN  
MATED TO  
METRAL 4000  
RECEPT.  
(2.30 MIN  
IN NON-  
STANDARD  
REAR PLUG-UP  
APPLICATIONS)

|             |         |                |      |            |  |  |  |
|-------------|---------|----------------|------|------------|--|--|--|
| mat'l code  |         |                |      | SEE NOTE 5 |  |  |  |
| ltr         | ecr no. | dr             | date |            |  |  |  |
| AL          |         |                |      |            |  |  |  |
|             |         |                |      |            |  |  |  |
|             |         |                |      |            |  |  |  |
|             |         |                |      |            |  |  |  |
|             |         |                |      |            |  |  |  |
|             |         |                |      |            |  |  |  |
|             |         |                |      |            |  |  |  |
| sheet index |         | revision sheet |      |            |  |  |  |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X024<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 41           | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 03 | 03 | 03 | 03 |
|                                                       | D   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 03 | 03 |
|                                                       | C   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 03 | 03 |
|                                                       | B   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 03 | 03 |
|                                                       | A   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 03 | 03 |
|                                                       | GND | 06           | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 02 | 02 | 02 | 02 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X025<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 41 | 41 |
|                                                       | D   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 37 | 37 |
|                                                       | C   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 50 | 50 |
|                                                       | B   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 37 | 37 |
|                                                       | A   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 50 | 50 |
|                                                       | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 06 | 06 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X026<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 03           | 03 | 03 | 03 | 03 | 03 | 41 | 41 | 41 | 41 | 41 | 41 |
|                                                       | D   | 03           | 03 | 03 | 03 | 03 | 03 | 37 | 37 | 37 | 37 | 37 | 37 |
|                                                       | C   | 03           | 03 | 03 | 03 | 03 | 03 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                       | B   | 03           | 03 | 03 | 03 | 03 | 03 | 37 | 37 | 37 | 37 | 37 | 37 |
|                                                       | A   | 03           | 03 | 03 | 03 | 03 | 03 | 50 | 50 | 50 | 50 | 50 | 50 |
|                                                       | GND | 02           | 02 | 02 | 02 | 02 | 02 | 06 | 06 | 06 | 06 | 06 | 06 |
|                                                       |     |              |    |    |    |    |    |    |    |    |    |    |    |

| METRAL<br>P/N</ |
|-----------------|
|-----------------|





A

B

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X028<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | G   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | F   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | E   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X029<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | G   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | F   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | E   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | D   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | C   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | B   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | A   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X030<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | G   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | F   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | E   | 05           | 05 | 05 | 05 | 05 | 05 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | D   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X031<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | G   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | F   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | E   | 05           | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
|                                                       | D   | 19           | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
|                                                       | C   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | B   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | A   | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
|                                                       | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                         | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                       |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X032<br>RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 19 | 02 |
|                                                       | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 19 | 19 |
|                                                       | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                       | E   | 41           | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 03 | 03 | 19 | 19 |
|                                                       | D   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 19 | 19 | 03 | 03 |
|                                                       | C   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 19 | 19 |
|                                                       | B   | 37           | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 19 | 19 |
|                                                       | A   | 50           | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 19 | 19 |
|                                                       | GND | 06           | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 02 | 02 | 02 | 02 |

FOR REAR  
PLUG UP  
APPLICATIONS.  
PCB THICK-  
NESS RANGE: 4.30-5.70  
WHEN MATED TO  
METRAL 1000  
RECEPT.  
CANNOT BE MATED  
TO METRAL 4000  
RECEPT.  
(2.30 MIN  
IN NON-  
STANDARD  
REAR PLUG-UP  
APPLICATIONS)

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 3.30-5.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)  
NO PIN ALIGNER

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 3.30-5.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)  
NO PIN ALIGNER

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 3.30-5.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)  
NO PIN ALIGNER

FOR REAR PLUG UP  
APPLICATIONS, PCB  
THICKNESS RANGE: 2.95  
-5.30 WHEN MATED TO  
METRAL 1000 RECEPT.  
AND 3.30-5.30 WHEN MATED  
TO METRAL 4000 RECEPT.  
(2.30 MIN IN NON-STANDARD  
REAR PLUG UP APPLICATIONS)  
NO PIN ALIGNER

|                          |         |                   |      |
|--------------------------|---------|-------------------|------|
| mat'l code<br>SEE NOTE 5 |         |                   |      |
| ltr                      | ecn no. | dr                | date |
| AL                       |         |                   |      |
|                          |         |                   |      |
|                          |         |                   |      |
|                          |         |                   |      |
|                          |         |                   |      |
|                          |         |                   |      |
|                          |         |                   |      |
| sheet<br>index           |         | revision<br>sheet |      |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X033<br>*RPU<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                        | G   | 03           | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
|                                                        | F   | -            | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 | -  | 03 |
|                                                        | E   | 03           | 03 | 41 | 41 | 41 | 41 | 41 | 41 | 03 | 03 | 03 | 03 |
|                                                        | D   | 03           | 03 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 03 | 03 |
|                                                        | C   | 03           | 03 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 03 | 03 |
|                                                        | B   | 03           | 03 | 37 | 37 | 37 | 37 | 37 | 37 | 03 | 03 | 03 | 03 |
|                                                        | A   | 03           | 03 | 50 | 50 | 50 | 50 | 50 | 50 | 03 | 03 | 03 | 03 |
|                                                        | GND | 02           | 02 | 06 | 06 | 06 | 06 | 06 | 06 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X034<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | F   | 04           | 04 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X035<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | F   | 04           | 04 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 |
|                                                | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X036<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | F   | 02           | 02 | 02 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | E   | 03           | 02 | 02 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | D   | 03           | 02 | 02 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | C   | 03           | 02 | 02 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | B   | 03           | 02 | 03 | 02 | 02 | 02 | 03 | 01 | 01 | 03 | 01 | 01 |
|                                                | A   | 03           | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 01 | 03 | 01 | 01 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |



| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X037<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 02 | 02 | 03 | 02 | 03 | 02 | 02 | 02 | 03 | 02 | 03 |
|                                                | G   | 03           | 02 | 02 | 03 | 02 | 03 | 02 | 03 | 03 | 02 | 03 | 02 |
|                                                | F   | 03           | 02 | 02 | 03 | 03 | 03 | 03 | 02 | 02 | 03 | 03 | 02 |
|                                                | E   | 03           | 02 | 02 | 03 | 02 | 03 | 02 | 03 | 02 | 02 | 03 | 02 |
|                                                | D   | 03           | 02 | 02 | 03 | 02 | 03 | 02 | 03 | 02 | 02 | 03 | 03 |
|                                                | C   | 03           | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 02 | 03 | 03 | 02 |
|                                                | B   | 03           | 02 | 02 | 03 | 02 | 03 | 02 | 02 | 02 | 02 | 03 | 02 |
|                                                | A   | 03           | 02 | 02 | 03 | 02 | 03 | 02 | 02 | 02 | 02 | 03 | 02 |
|                                                | GND | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |   |    |   |    |   |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|---|----|---|----|---|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5 | 6  | 7 | 8  | 9 | 10 | 11 | 12 |
| 63784-X038<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | G   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | F   | 02           | -  | 02 | 19 | - | 19 | - | -  | - | 02 | -  | 19 |
|                                                | E   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | D   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | C   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | B   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | A   | 02           | 02 | 02 | 19 | - | 19 | - | 02 | - | 02 | -  | 19 |
|                                                | GND | -            | -  | -  | -  | - | -  | - | -  | - | -  | -  | -  |

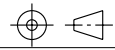
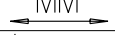
| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X039<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | F   | 02           | 02 | 02 | 03 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | E   | 02           | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | D   | 03           | 01 | 02 | 01 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | C   | 02           | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | B   | 02           | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | A   | 03           | 01 | 02 | 01 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
|                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X040<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | G   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | F   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | E   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | D   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | C   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | B   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | A   | 03           | 03 | 03 | 03 | 03 | 03 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X041<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 |
|                                                | F   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 |
|                                                | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 02 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 02 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 02 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 01 | 02 |
|                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X042<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 01           | 02 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 03 |
|                                                | G   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | F   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | E   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | D   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 |
|                                                | C   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 |
|                                                | B   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 |
|                                                | A   | 02           | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                  | ROW | CONTACT CODE |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------|-----|--------------|----|----|----|----|----|----|----|----|----|----|----|
|                                                |     | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 63784-X043<br><br>FOR LEAD FREE<br>SEE NOTE 15 | H   | 02           | 02 | 02 | 02 | 01 | 02 | 01 | 02 | 02 | 02 | 02 | 03 |
|                                                | G   | 02           | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | F   | 02           | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | E   | 02           | 02 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | D   | 02           | 02 | 02 | 02 | 03 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | C   | 02           | 02 | 02 | 02 | 03 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | B   | 02           | 02 | 02 | 02 | 03 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | A   | 02           | 02 | 02 | 02 | 03 | 02 | 02 | 02 | 02 | 02 | 02 | 03 |
|                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

|                          |                   |      |             |                                          |            |  |        |          |                                                                                       |                                                                                                          |                                                                     |             |             |      |
|--------------------------|-------------------|------|-------------|------------------------------------------|------------|--|--------|----------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------|-------------|------|
| mat'l code<br>SEE NOTE 5 |                   |      |             | tolerances unless<br>otherwise specified |            |  |        | CUSTOMER |                                                                                       |  www.fciconnect.com |                                                                     |             |             |      |
| ltr                      | ecn no.           | dr   | date        | linear                                   | 0.X ±0.3   |  |        |          | COPY                                                                                  |                                                                                                          | title<br>VERTICAL SIGNAL HDR 8 ROW<br>P.F. 96 POS. SELECT LOAD EXT. |             |             |      |
| AL                       |                   |      |             |                                          | 0.XX ±0.13 |  |        |          | projection                                                                            |                                                                                                          |                                                                     |             |             |      |
|                          |                   |      |             |                                          | .XXX ±.051 |  |        |          |  |                                                                                                          |                                                                     |             |             |      |
|                          |                   |      |             | angles                                   | 0° ±2°     |  |        |          |  |                                                                                                          | product family                                                      |             | METRAL 1000 | code |
|                          |                   | dr   | E. KROPER.  | 2001-01-10                               | size       |  | dwg no | 213      |                                                                                       |                                                                                                          |                                                                     |             |             |      |
|                          |                   | enrg | J. VOLSTORF | 2001-01-10                               | scale      |  | A      |          |                                                                                       |                                                                                                          | 63784                                                               | sheet<br>10 |             |      |
|                          |                   | chr  | J. VOLSTORF | 2001-01-10                               | 1:1        |  |        |          |                                                                                       |                                                                                                          |                                                                     |             |             |      |
|                          |                   | appd | J. VOLSTORF | 2001-01-10                               |            |  |        |          |                                                                                       |                                                                                                          |                                                                     |             |             |      |
| sheet<br>index           | revision<br>sheet |      |             |                                          |            |  |        |          |                                                                                       |                                                                                                          |                                                                     |             |             |      |



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

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Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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С нами вы становитесь еще успешнее!

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