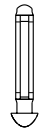
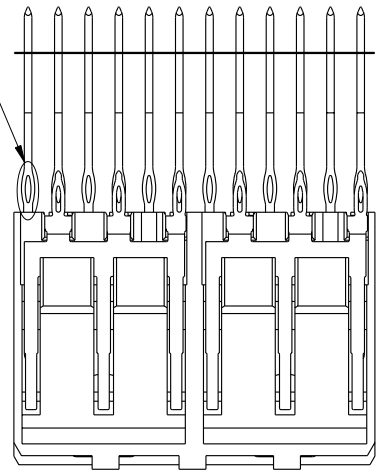
| PRODUCT NUMBER | PLATING PERFORMANCE LEVEL | FOR REAR PLUG-UP APPLICATIONS USE SHROUD |
|---|---|---|
| 63784-1YYY | TELCORDIA CO | 74993-102 |
| 63784-1YYYLF | TELCORDIA CO | 84625-102LF |
| 63784-5YYY | TELCORDIA UE | 74993-502 |
| 63784-5YYYLF | TELCORDIA UE | 84625-502LF |
| 63784-9YYY | TELCORDIA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

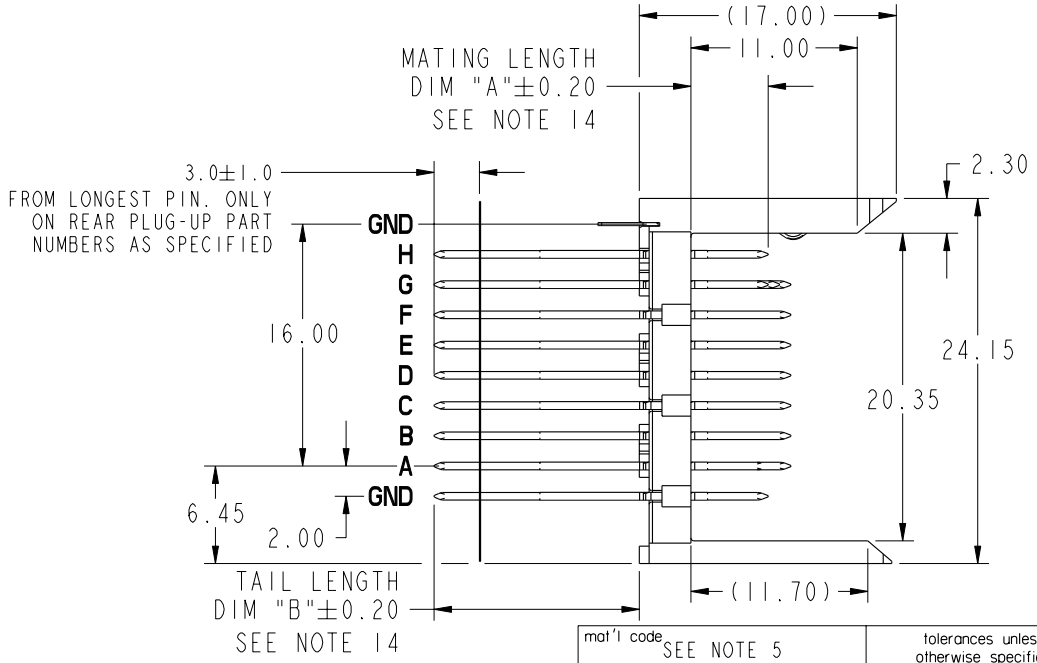
EYE OF NEEDLE PRESS FIT SECTION

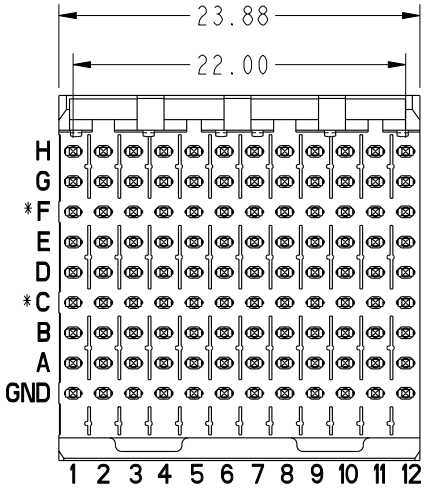


BABY-H PRESS FIT SECTION




DETAIL A
SCALE 4:1
SEE NOTE 16




| mat'l code | SEE NOTE 5 | | | tolerances unless otherwise specified | | | CUSTOMER |
|---|---|---|---|---|---|---|---|
| ltr | ecn no. | dr | date | | | | COPY |
| AH | V06-0498 | DCH | 2006-05-30 | linear | 0.X ±0.3 | | projection |
| AJ | V07-0169 | DCH | 2007-03-27 | | 0.XX ±0.13 | | |
| AK | V08-0016 | HTB | 2008-01-10 | | .XXX ±.051 | | |
| AL | V08-0051 | LP | 2008-02-19 | angles | 0° ±2° | | |
| - | - | - | - | dr | E. KROPER. | 2001-01-10 | MM |
| AF | V05-1022 | LP | 2005-11-08 | engr | J. VOLSTORF | 2001-01-10 | |
| AG | V05-1125 | LP | 2005-12-19 | chr | J. VOLSTORF | 2001-01-10 | scale 1:1 |
| | | | | appd | J. VOLSTORF | 2001-01-10 | |

| sheet index | revision | AL | AL | AL | AL | AL | AL | AL | AL | AL | AL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | sheet | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

FCI www.fciconnect.com

title: VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.

product family: METRAL 1000 | code: 213

size: A | dwg no: 63784 | sheet: 1 of 10

cage code: 22526

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REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| PIN NO. | DIM A MATING LENGTH | DIM B TAIL LENGTH | PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH | | | | |
|---|---|---|---|---|---|---|---|
| | | | WHEN MATING TO A 74981 SERIES RECEPTACLE | | WHEN MATING TO A 52066 SERIES METRAL 4000 RECEPTACLE | | |
| | | | ROWS A,B, C,D,E,F,G & H | GROUND ROW | ROWS:A,B, 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 |

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| mat'l code | SEE NOTE 5 | | |
|---|---|---|---|
| ltr | ecn no. | dr | date |
| AL | | | |

| tolerances unless otherwise specified | | |
|---|---|---|
| linear | 0.X ±0.3 | |
| | 0.XX ±0.13 | |
| | .XXX ±.051 | |
| angles | 0° ±2° | |
| dr | E. KROPER. | 2001-01-10 |
| engr | J. VOLSTORF | 2001-01-10 |
| chr | J. VOLSTORF | 2001-01-10 |
| appd | J. VOLSTORF | 2001-01-10 |

CUSTOMER COPY

projection

MM

scale 1:1

www.fciconnect.com

title: VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.

product family: METRAL 1000 | code: 213

size: A | dwg no: 63784 | sheet: 2

cage code: 22526

| sheet index | revision sheet | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| PIN NO. | DIM A MATING LENGTH | DIM B TAIL LENGTH | PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH | | | | |
|---|---|---|---|---|---|---|---|
| | | | WHEN MATING TO A 74981 SERIES RECEPTACLE | | WHEN MATING TO A 52066 SERIES METRAL 4000 RECEPTACLE | | |
| | | | ROWS A,B,C, D,E,F,G & H | GROUND ROW | ROWS:A,B, 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.

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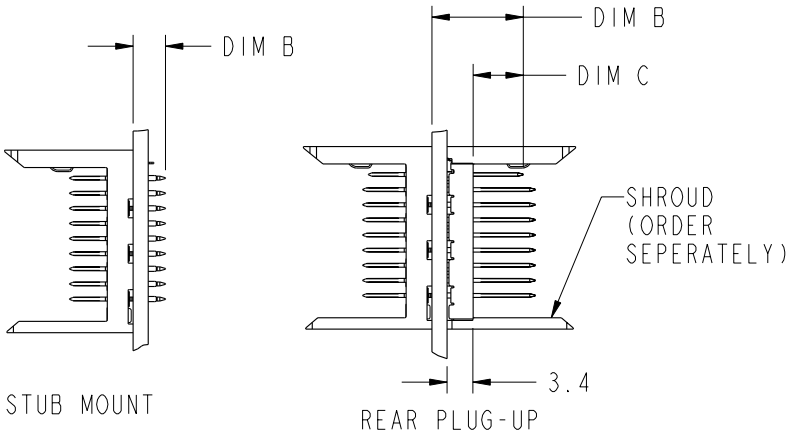
| mat'l code | SEE NOTE 5 | | | tolerances unless otherwise specified | | | CUSTOMER | FCI www.fciconnect.com |
|---|---|---|---|---|---|---|---|---|
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | |
| AL | | | | | 0.XX ±0.13 | | projection | title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT. |
| | | | | | .XXX ±.051 | | | |
| | | | | angles | 0° ±2° | | | |
| | | | | dr | E. KROPER. | 2001-01-10 | MM | product family METRAL 1000 code 213 |
| | | | | engr | J. VOLSTORF | 2001-01-10 | | |
| | | | | chr | J. VOLSTORF | 2001-01-10 | scale | size A dwg no 63784 sheet 3 |
| | | | | appd | J. VOLSTORF | 2001-01-10 | 1:1 | |
| sheet index | revision sheet | | | | | | | cage code 22526 |

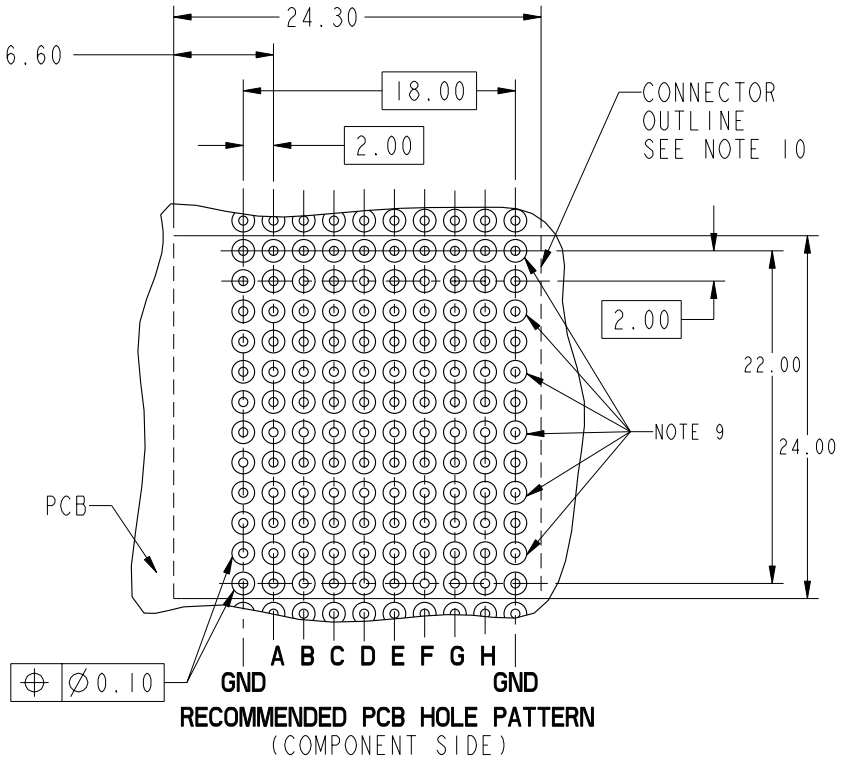
REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| PRODUCT NUMBER |
| --- |
| SEE SHEET 1 |




**RECOMMENDED PCB HOLE PATTERN**
(COMPONENT SIDE)

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

* SEE PRINT 58351 FOR ADDITIONAL PCB INFO.

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

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REV E - 2006-04-18

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 95051I-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."

3. SEE FCI PUBLICATION 95051I-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-XYYYLF
    - LEAD FREE (OPTIONAL)
    - SELECT LOAD PATTERN
    - PLATING CODE

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 | FCI www.fciconnect.com |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | |
| AL | | | | | 0.XX ±0.13 | | projection | title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT. |
| | | | | | .XXX ±.051 | | | |
| | | | | angles | 0° ±2° | | | |
| | | | | dr | E. KROPER. | 2001-01-10 | MM | product family METRAL 1000 code 213 |
| | | | | engr | J. VOLSTORF | 2001-01-10 | | |
| | | | | chr | J. VOLSTORF | 2001-01-10 | scale 1:1 | size A dwg no 63784 sheet 5 |
| | | | | appd | J. VOLSTORF | 2001-01-10 | | |
| sheet index | revision sheet | | | | | | | cage code 22526 |

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REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| METRAL P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X001 FOR LEAD FREE SEE NOTE 15 | 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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X002 RPU FOR LEAD FREE 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 |

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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X003 RPU FOR LEAD FREE 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 |

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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X004 FOR LEAD FREE SEE NOTE 15 | 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 | 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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X005 RPU FOR LEAD FREE 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 |

FOR REAR PLUG UP APPLICATIONS, PCB TH'K 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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X006 RPU FOR LEAD FREE 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 |

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

| METRAL P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X007 FOR LEAD FREE 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 | 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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X008 FOR LEAD FREE SEE NOTE 15 | 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 P/N | ROW | CONTACT CODE 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63784-X009 RPU FOR LEAD FREE SEE NOTE 15 | 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.

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mat'l code SEE NOTE 5

| ltr | ecn no. | dr | date |
|---|---|---|---|
| AL | | | |

| sheet index | revision sheet |
|---|---|

tolerances unless otherwise specified

| | | |
|---|---|---|
| linear | 0.X ±0.3 | |
| | 0.XX ±0.13 | |
| | .XXX ±.051 | |
| angles | 0° ±2° | |
| dr | E. KROPER. | 2001-01-10 |
| engr | J. VOLSTORF | 2001-01-10 |
| chr | J. VOLSTORF | 2001-01-10 |
| appd | J. VOLSTORF | 2001-01-10 |

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projection

MM

scale 1:1

www.fciconnect.com

title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.

product family METRAL 1000 | code 213

size A | dwg no 63784 | sheet 6

cage code 22526

Pro/E

REV E - 2006-04-18

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X010 FOR LEAD FREE 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 | 02 | 01 | 02 | 02 | 02 |
| | GND | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X011 FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X012 RPU FOR LEAD FREE SEE NOTE 15 | H | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 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 |

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

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X013 FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X014 FOR LEAD FREE 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 |

CAN NOT BE MATED TO A METRAL 4000 RECEPTACLE

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X015 FOR LEAD FREE 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 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
| | 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 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
| | B | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| | A | 01 | 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X016 RPU FOR LEAD FREE SEE NOTE 15 | 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 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| | 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 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| | B | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| | A | 48 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| | GND | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 5.50 TO 6.80

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X017 FOR LEAD FREE SEE NOTE 15 | H | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| | G | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 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 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 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 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 02 | 02 | 02 | 02 |
| | GND | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

CAN NOT BE MATED TO A METRAL 4000 RECEPTACLE

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X018 FOR LEAD FREE SEE NOTE 15 | H | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 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 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |

| mat'l code SEE NOTE 5 | | | | tolerances unless otherwise specified | | | CUSTOMER | FCI www.fciconnect.com |
|---|---|---|---|---|---|---|---|---|
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | |
| AL | | | | | 0.XX ±0.13 | | projection | title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT. |
| | | | | | .XXX ±.051 | | | |
| | | | | angles | 0° ±2° | | | |
| | | | | dr | E. KROPER. | 2001-01-10 | MM | product family METRAL 1000 code 213 |
| | | | | engr | J. VOLSTORF | 2001-01-10 | | size A dwg no 63784 sheet 7 |
| | | | | chr | J. VOLSTORF | 2001-01-10 | scale 1:1 | |
| | | | | appd | J. VOLSTORF | 2001-01-10 | | |
| sheet index | revision sheet | | | | | | | cage code 22526 |

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REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X019 RPU<br>FOR LEAD FREE 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X020 RPU<br>FOR LEAD FREE 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X021 RPU<br>FOR LEAD FREE 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 | 03 | 03 | 03 | 03 | 03 |
| | GND | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 02 | 02 | 02 | 02 | 02 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X022 RPU<br>FOR LEAD FREE 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X023 RPU<br>FOR LEAD FREE 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 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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X024 RPU<br>FOR LEAD FREE 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X025 RPU<br>FOR LEAD FREE 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X026 RPU<br>FOR LEAD FREE 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 | 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X027 RPU<br>FOR LEAD FREE 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 | 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 |

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

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REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X028 RPU<br>FOR LEAD FREE 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 |

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

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X029 RPU<br>FOR LEAD FREE 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 |

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

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X030 RPU<br>FOR LEAD FREE 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 |

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

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X031 RPU<br>FOR LEAD FREE 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 |

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

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X032 RPU<br>FOR LEAD FREE 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 TH'K 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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X033 *RPU<br>FOR LEAD FREE 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 |

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)

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X034<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X035<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X036<br>FOR LEAD FREE 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 |

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| mat'l code | SEE NOTE 5 | | |
|---|---|---|---|
| ltr | ecn no. | dr | date |
| AL | | | |

| tolerances unless otherwise specified | | |
|---|---|---|
| linear | 0.X ±0.3 | |
| | 0.XX ±0.13 | |
| | .XXX ±.051 | |
| angles | 0° ±2° | |
| dr | E. KROPER. | 2001-01-10 |
| engr | J. VOLSTORF | 2001-01-10 |
| chr | J. VOLSTORF | 2001-01-10 |
| appd | J. VOLSTORF | 2001-01-10 |

CUSTOMER COPY

projection

MM

scale 1:1

www.fciconnect.com

title: VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.

product family: METRAL 1000 | code: 213

size: A | dwg no: 63784 | sheet: 9

cage code: 22526

| sheet index | revision sheet |
|---|---|

REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

| METRAL P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X037<br>FOR LEAD FREE SEE NOTE 15 | H | 03 | 02 | 02 | 03 | 02 | 03 | 02 | 02 | 02 | 02 | 03 | 02 |
| | 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X038<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X039<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X040<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X041<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X042<br>FOR LEAD FREE 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 P/N | ROW | CONTACT CODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 63784-X043<br>FOR LEAD FREE 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 SEE NOTE 5 | | | | tolerances unless otherwise specified | | | CUSTOMER COPY | FCI www.fciconnect.com |
|---|---|---|---|---|---|---|---|---|
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | projection | title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT. |
| AL | | | | | 0.XX ±0.13 | | | |
| | | | | | .XXX ±.051 | | | |
| | | | | angles | 0° ±2° | | | |
| | | | | dr | E. KROPER. | 2001-01-10 | MM | product family METRAL 1000 code 213 |
| | | | | engr | J. VOLSTORF | 2001-01-10 | | |
| | | | | chr | J. VOLSTORF | 2001-01-10 | scale 1:1 | size A dwg no 63784 sheet 10 |
| | | | | appd | J. VOLSTORF | 2001-01-10 | | |
| sheet index | revision sheet | | | | | | | cage code 22526 |

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REV E - 2006-04-18

Pro/E

PDM: Rev:AL STATUS: Released Printed: May 13, 2011

LifeElectronics
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