
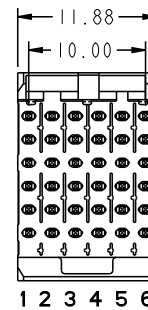
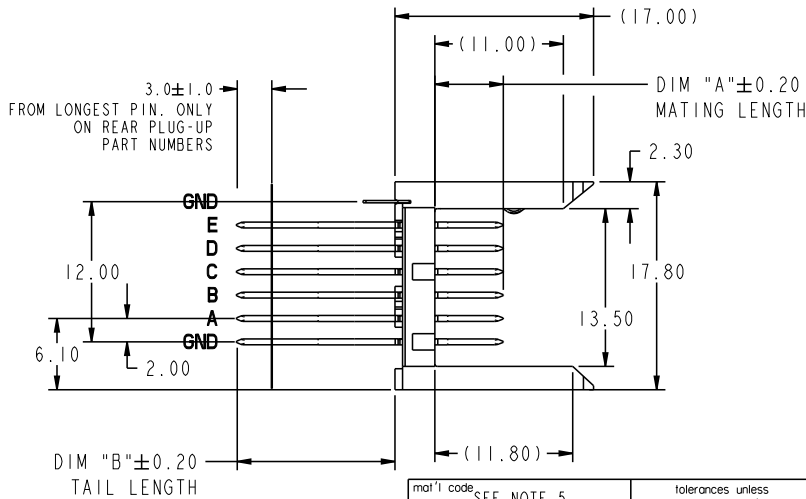
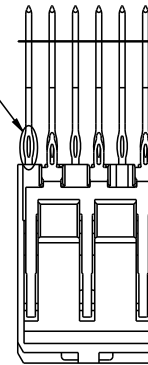







| PRODUCT NO. | PLATING PERFORMANCE LEVEL | FOR REAR PLUG-UP APPLICATIONS USE SHROUD |
|--------------|---------------------------|--|
| 73983-1ZZZ | TELCORDIA CO | 84818-101 |
| 73983-1ZZZLF | | 84818-101LF |
| 73983-2ZZZ | CUSTOMER SPECIAL | 84818-301 |
| 73983-2ZZZLF | | 84818-301LF |
| 73983-3ZZZ | CUSTOMER SPECIAL | 84818-301 |
| 73983-3ZZZLF | | 84818-301LF |
| 73983-5ZZZ | TELCORDIA UE | 84818-501 |
| 73983-5ZZZLF | | 84818-501LF |
| 73983-9ZZZ | TELCORDIA CO | 84818-101 |
| 73983-9ZZZLF | | 84818-101LF |

SEE DETAIL A



EYE OF NEEDLE PRESS FIT SECTION BABY-H PRESS FIT SECTION



| | | | | | | | | | | | | | | | |
|-------------|----------|-----|------------|------------|---|---------------|---|---|---|---|--|--------------------------------|--|---|--|
| mat'l code | | | | SEE NOTE 5 | | | | tolerances unless otherwise specified | | | | CUSTOMER COPY | |  www.fciconnect.com | |
| ltr | ecn no. | dr | date | linear | | | | projection | | | | title | | code | |
| T | V06-0544 | DCH | 2006-06-09 | | | | |  | | | | VERTICAL SIGNAL HDR 5 ROW | | 213 | |
| U | V07-0165 | DCH | 2007-03-14 | | | | |  | | | | P.F. 30 POS. SPECIAL LOAD STD. | | 1 of 6 | |
| V | V07-0667 | HTB | 2007-11-07 | angles | | | |  | | | | product family | | METRAL 1000 | |
| W | V08-0009 | LP | 2008-11-23 | dr | | K. BELL | | 2000-03-29 | | size | | dwg no | | 73983 | |
| X | 109-0254 | RKV | 2009-11-13 | engr | | M. HAHN | | 2000-03-29 | | scale | | A | | | |
| R | V04-0398 | DAI | 2004-05-25 | chr | | RAJKRISHNAN.V | | 2009-11-13 | |  | | | | | |
| S | V05-0405 | DAI | 2005-05-16 | oppd | | BIJU K PAUL | | 2009-11-13 | | | | | | | |
| sheet index | revision | X | X | X | X | X | X | X | X | | | | | | |
| | sheet | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | |



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Pro/E

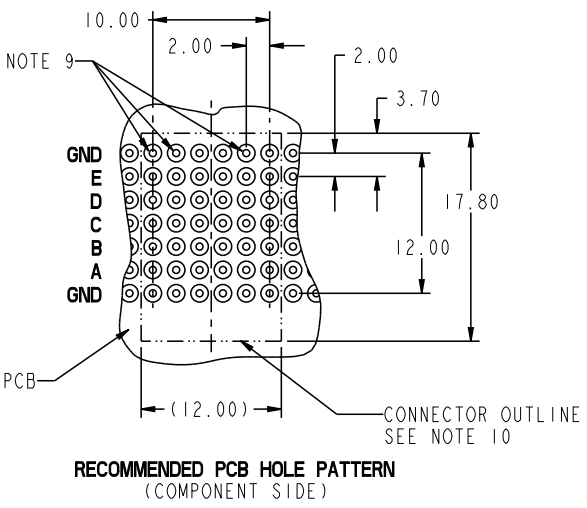
PDM: Rev:X

STATUS: Released

Printed: Dec 17, 2009

code code 22526

PRODUCT NUMBER
SEE TABLE



RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE)

| PRESS-FIT HOLES | OPTION 1 |
|-----------------------------|---------------------------|
| HOLE DIAMETER AFTER PLATING | 0.65-0.80 |
| DRILLED HOLE | 0.81-0.86 (0.85 DRILL) |
| COPPER PLATING | 0.025 MIN |
| SnPb PLATING | 0.005-0.015 |

- NOTES:
- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
 - SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
 - SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATIONS."
 - UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
 - HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
 - PIN MATERIAL: PHOSPHER BRONZE
GROUND SPRING MATERIAL: PHOSPHER BRONZE
 - PLATING INFORMATION: PLATING ON CONTACT AREAS IS PER PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS SnPb.
 - DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
FOR MATING WITH METRAL 1000 RECEPTACLES:
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
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-E
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
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
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
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
 - THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLAINT 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.
 - THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
 - 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.
 - CURRENT RATING: 1 AMP PER PIN
 - TEMPERATURE RANGE: -55°C TO +105°C
 - THE 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.
 - FOR LEAD FREE PART NUMBERS, ADD "LF" SUFFIX. EXAMPLE: 73983-XXXXLF
 - 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 | projection | COPY | | title | |
| X | | | | | | | | VERTICAL SIGNAL HDR 5 ROW | |
| | | | | angles | | | | P.F. 30 POS. SPECIAL LOAD STD. | |
| | | | | dr | K. BELL | 2000-03-29 | | product family | METRAL 1000 |
| | | | | engr | M. HAHN | 2000-03-29 | | size | dwg no |
| | | | | chr | RAJAKRISHNAN.V | 2009-11-13 | | 73983 | 213 |
| | | | | oppd | BIJU K PAUL | 2009-11-13 | scale | A | sheet |
| | | | | | | | 1:1 | | 2 |
| sheet index | revision sheet | | | | | | | code | 22526 |

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| PIN NO. | DIM A MATING LENGTH | DIM B TAIL LENGTH | PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH | | | | |
|---------|---------------------|-------------------|---|-------------|--|-------------|-------------|
| | | | WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE | | WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE | | |
| | | | ROWS A,B,C,D,&E | GROUND ROW | ROWS:A,B,D&E | ROW C | 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 |
| 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 |
| 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: SEE NOTE 5 | | tolerances unless otherwise specified | | CUSTOMER | www.fciconnect.com |
| ltr | ecm no. | dr | date | COPY | |
| X | | | | projection | title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD. |
| | | | | | |
| | | | | angles | product family size dwg no |
| | | | | dr K. BELL 2000-03-29 engr M. HAHN 2000-03-29 chr RAJRISHMAN.V 2009-11-13 oppd BIJU K PAUL 2009-11-13 | |
| sheet index | revision sheet | | | scale 1:1 | code 213 sheet 3 |
| | | | | | code code 22526 |

REV E - 2004-04-18

PDM: Rev:X STATUS:Released Printed: Dec 17, 2009



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| PIN NO. | DIM A MATING LENGTH | DIM B TAIL LENGTH | PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH | | | | |
|---------|---------------------|-------------------|---|-------------|--|-------------|-------------|
| | | | WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE | | WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE | | |
| | | | ROWS A,B,C,D,&E | GROUND ROW | ROWS:A,B,D&E | ROW C | 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 |
| 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 |

| | | | | | | | |
|------------------------|----------------|---------------------------------------|------|------------------------------|------------|--|--|
| mat'l code: SEE NOTE 5 | | tolerances unless otherwise specified | | CUSTOMER | | FCI www.fciconnect.com | |
| ltr | ecm no. | dr | date | linear | projection | title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD. | |
| x | | | | | | product family METRAL 1000 code 213 | |
| | | | | angles | MM | size dwg no 73983 sheet 4 | |
| | | | | dr K. BELL 2000-03-29 | scale 1:1 | code 22526 | |
| | | | | engr M. HAHN 2000-03-29 | | | |
| | | | | chr RAJKRISHNAN.V 2009-11-13 | | | |
| | | | | oppd BIJU K PAUL 2009-11-13 | | | |
| sheet index | revision sheet | | | | | | |

REV E - 2006-04-18

PDM: Rev:X STATUS:Released Printed: Dec 17, 2009



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| SPECIAL LOAD PATTERNS | | |
|--|-----|-----------|
| PRODUCT # | ROW | PIN CODES |
| 73983-X001 SEE NOTE 14 LEAD FREE OPTION | E | 01 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X002 *RPU SEE NOTE 14 LEAD FREE OPTION | E | 22 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X003 *RPU SEE NOTE 14 LEAD FREE OPTION | E | 30 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X004 *RPU SEE NOTE 14 LEAD FREE OPTION | E | 05 |
| | E | |
| | C | |
| | B | |
| | A | |
| | GND | |

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 2.95 TO 3.80mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 3.25 TO 4.55mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 4.00 TO 5.30mm

* REAR PLUG UP PART NUMBER

| SPECIAL LOAD PATTERNS | | |
|--|-----|-----------|
| PRODUCT # | ROW | PIN CODES |
| 73983-X005 *RPU SEE NOTE 14 LEAD FREE OPTION | E | 35 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X008 *RPU SEE NOTE 14 LEAD FREE OPTION | E | 09 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X011 SEE NOTE 14 LEAD FREE OPTION | E | 02 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X012 *RPU SEE NOTE 14 LEAD FREE OPTION | E | 44 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 4.75 TO 6.05mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 7.40 TO 8.70mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 2.95 TO 3.80mm

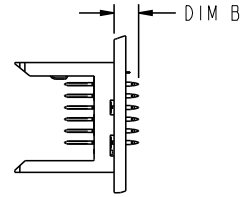
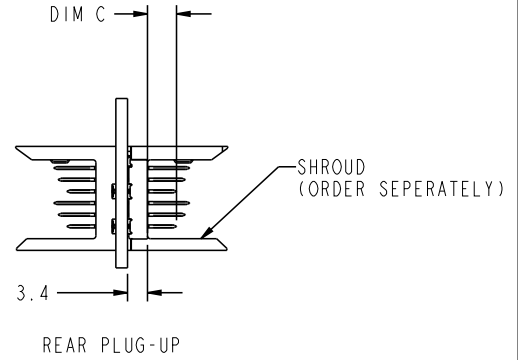
| | | | | | | | | | |
|------------------------|----------------|----|------|---------------------------------------|---------------|----------------|--|--|--|
| mat'l code: SEE NOTE 5 | | | | tolerances unless otherwise specified | | CUSTOMER COPY | | FCI www.fciconnect.com | |
| ltr | ecn no. | dr | date | linear | projection | title | | VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD. | |
| X | | | | angles | | product family | | METRAL 1000 | |
| | | | | dr | K. BELL | 2000-03-29 | | code | |
| | | | | engr | M. HAHN | 2000-03-29 | | size | |
| | | | | chr | RAJKRISHNAN.V | 2009-11-13 | | dwg no | |
| | | | | oppd | BIJU K PAUL | 2009-11-13 | | scale | |
| sheet index | revision sheet | | | | | 1:1 | | A | |
| | | | | | | 73983 | | 213 | |
| | | | | | | | | sheet 5 | |
| | | | | | | code code | | 22526 | |



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| SPECIAL LOAD PATTERNS | | |
|--|-----|-----------|
| PRODUCT # | ROW | PIN CODES |
| 73983-X021 SEE NOTE 14 LEAD FREE OPTION | E | 01 |
| | D | |
| | C | 03 |
| | B | 01 |
| | A | |
| | GND | |
| 73983-X031 SEE NOTE 14 LEAD FREE OPTION | E | 03 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |
| 73983-X032 ** SEE NOTE 14 LEAD FREE OPTION | E | 19 |
| | D | |
| | C | |
| | B | |
| | A | |
| | GND | |

| PRODUCT # | ROW | COLUMN | | | | | |
|--|-----|--------|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| 73983-X033 SEE NOTE 14 LEAD FREE OPTION | E | 02 | 02 | 02 | 02 | 02 | 02 |
| | D | 02 | 02 | 02 | 02 | 02 | 02 |
| | C | 02 | 02 | 02 | 02 | 01 | 02 |
| | B | 02 | 02 | 02 | 02 | 02 | 02 |
| | A | 02 | 02 | 02 | 02 | 02 | 02 |
| | GND | 02 | 02 | 02 | 02 | 02 | 02 |



** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE

| | | | | | | | | | | | |
|------------------------|---------|----|------|---------------------------------------|--|--|--|------------|--|---|--|
| mat'l code: SEE NOTE 5 | | | | tolerances unless otherwise specified | | | | CUSTOMER | | FCJ www.fcjconnect.com | |
| ltr | ecm no. | dr | date | linear | | | | projection | | title | |
| X | | | | | | | | MM | | VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD. | |
| | | | | angles | | | | MM | | product family | |
| | | | | dr K. BELL 2000-03-29 | | | | MM | | METRAL 1000 | |
| | | | | engr M. HAHN 2000-03-29 | | | | MM | | code | |
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