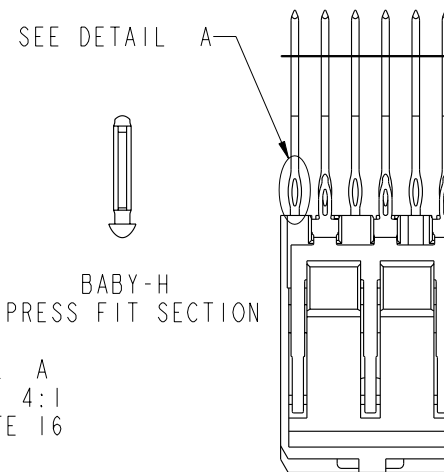
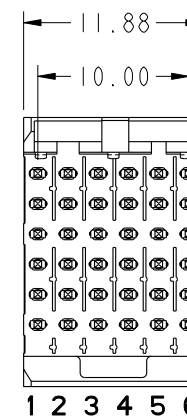


☐ EYE OF NEEDLE      BABY-H  
 PRESS FIT SECTION    PRESS FIT SECTION



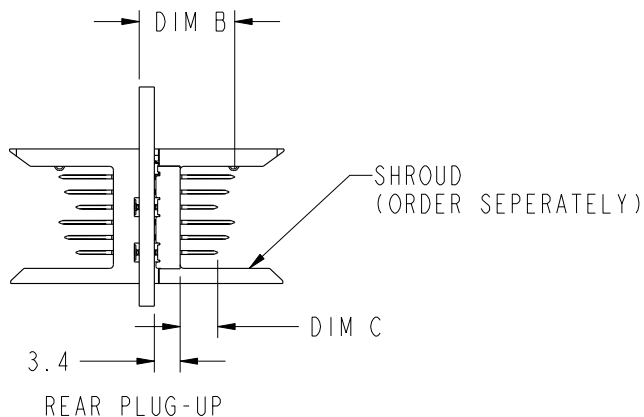
DETAIL A  
SCALE 4:1  
SEE NOTE 16

Pro/E

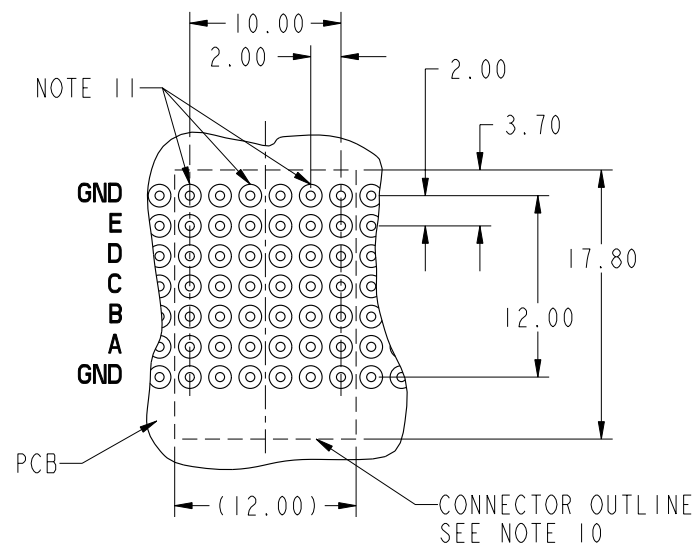


PRODUCT NUMBER  
SEE SHEET 1

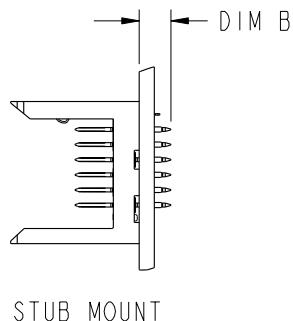
| PRESS-FIT HOLES                | OPTION 1                  |
|--------------------------------|---------------------------|
| HOLE DIAMETER<br>AFTER PLATING | 0.65-0.80                 |
| DRILLED HOLE                   | 0.81-0.86<br>(0.85 DRILL) |
| COPPER PLATING                 | 0.025 MIN    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



SEE PRINT 58351 FOR ADDITIONAL  
PCB INFORMATION



RECOMMENDED PCB HOLE PATTERN  
(COMPONENT SIDE)



|                          |                   |    |      |                                          |                    |                    |                                            |                           |                                                            |
|--------------------------|-------------------|----|------|------------------------------------------|--------------------|--------------------|--------------------------------------------|---------------------------|------------------------------------------------------------|
| mat'l code<br>SEE NOTE 5 |                   |    |      | tolerances unless<br>otherwise specified |                    | CUSTOMER           |                                            | FCI<br>www.fciconnect.com |                                                            |
| lfr                      | ecn no.           | dr | date | linear                                   | 0.X ± 0.3          | projection         | COPY                                       | title                     | VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |
| AW                       |                   |    |      |                                          | 0.XX ± 0.13        |                    |                                            |                           |                                                            |
|                          |                   |    |      |                                          | .XXX ± .051        |                    |                                            |                           |                                                            |
|                          |                   |    |      | angles                                   | 0° ± 2°            | MM<br>scale<br>2:1 | product family<br>METRAL 1000<br>size<br>A | dwg no<br>74817           | code<br>213<br>sheet<br>2                                  |
|                          |                   |    |      | dr                                       | K. BELL 2000-03-29 |                    |                                            |                           |                                                            |
|                          |                   |    |      | engr                                     | M. HAHN 2000-03-29 |                    |                                            |                           |                                                            |
|                          |                   |    |      | chr                                      | M. HAHN 2000-03-29 |                    |                                            |                           |                                                            |
|                          |                   |    |      | appd                                     | M. HAHN 2000-03-29 |                    |                                            |                           |                                                            |
| sheet<br>index           | revision<br>sheet |    |      |                                          |                    |                    |                                            |                           |                                                            |

cage code 22526

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PDM: Rev:AW

STATUS: Released Printed: May 13, 2011



| PIN<br>CODE<br>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 73981 OR 84688<br>SERIES METRAL 1000 RECEPTACLE |             | WHEN MATING TO A 52057 SERIES<br>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    | 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 |

\* 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           |       | FCI<br>www.fciconnect.com |                                                            |
| ltr                      | ecn no.  | dr | date | linear                                   | 0.X ±0.3           | projection         | COPY  | title                     | VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |
| AW                       |          |    |      |                                          | 0.XX ±0.13         |                    |       |                           |                                                            |
|                          |          |    |      |                                          | .XXX ±.051         |                    |       |                           |                                                            |
|                          |          |    |      | angles                                   | 0° ±2°             |                    | MM    | product family            | METRAL 1000                                                |
|                          |          |    |      | dr                                       | K. BELL 2000-03-29 |                    |       |                           |                                                            |
|                          |          |    |      | engr                                     | M. HAHN 2000-03-29 |                    |       |                           |                                                            |
|                          |          |    |      |                                          | chr                | M. HAHN 2000-03-29 | scale | A                         | size                                                       |
|                          |          |    |      |                                          | appd               | M. HAHN 2000-03-29 |       |                           |                                                            |
| sheet                    | revision |    |      |                                          |                    |                    |       |                           |                                                            |
| index                    | sheet    |    |      |                                          |                    |                    |       |                           |                                                            |

cage code 22526

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STATUS: Released Printed: May 13, 2011



| PIN<br>CODE<br>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 73981 OR<br>84688 SERIES RECEPTACLE |             | WHEN MATING TO A 52057 SERIES<br>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    | 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   |                                                                     | FCI<br>www.fciconnect.com |  |
| ltr                      | ecn no. | dr                | date | linear                                   | 0.X ±0.3           | projection |                                                                     |                           |  |
| AW                       |         |                   |      |                                          | 0.XX ±0.13         |            |                                                                     |                           |  |
|                          |         |                   |      |                                          | .XXX ±.051         |            |                                                                     |                           |  |
|                          |         |                   |      | angles                                   | 0° ±2°             |            | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                           |  |
|                          |         |                   |      | dr                                       | K. BELL 2000-03-29 |            |                                                                     |                           |  |
|                          |         |                   |      | enrg                                     | M. HAHN 2000-03-29 |            |                                                                     |                           |  |
|                          |         |                   |      | chr                                      | M. HAHN 2000-03-29 |            |                                                                     |                           |  |
|                          |         |                   |      | appd                                     | M. HAHN 2000-03-29 | scale      | 1:1                                                                 |                           |  |
| sheet<br>index           |         | revision<br>sheet |      |                                          |                    |            |                                                                     |                           |  |
|                          |         |                   |      |                                          |                    |            |                                                                     |                           |  |

cage code 22526

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STATUS: Released Printed: May 13, 2011



| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X001<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | D   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | C   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | B   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | A   | 04           | 03 | 03 | 01 | 01 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X002<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | D   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | C   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | B   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | A   | 01           | 01 | 01 | 01 | 03 | 04 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X003<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | D   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | C   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | B   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | A   | 02           | 03 | 02 | 02 | 04 | 19 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X004<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | D   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | C   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | B   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | A   | 03           | 02 | 02 | 04 | 19 | 02 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X005<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | D   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | C   | 30           | 06 | 06 | 06 | 06 | 06 |
|                                                          | B   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | A   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                          | GND | 30           | 30 | 30 | 30 | 30 | 30 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
3.25 - 4.55

- \* REAR PLUG-UP PART NUMBER WITH PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000  
RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT PIN ALIGNER

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X006<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | D   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | C   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | B   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | A   | 19           | 03 | 03 | 03 | 02 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X007<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | D   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | C   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | B   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | A   | 20           | 07 | 07 | 07 | 06 | 05 |
|                                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X008<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | D   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | C   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | B   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | A   | 19           | 03 | 03 | 03 | 03 | 03 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X009<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | D   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | C   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | B   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | A   | 20           | 07 | 07 | 07 | 07 | 07 |
|                                                                | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X010<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | D   | 02           | 03 | 03 | 03 | 03 | 03 |
|                                                  | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | B   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | A   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
2.30 (2.95) - 5.30  
(NOT A STANDARD  
METRAL 1000 APPL.).  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
2.30 (2.95) - 5.30  
(NOT A STANDARD  
METRAL 1000 REAR  
PLUG UP APPL.).  
CANNOT BE MATED  
TO A METRAL 4000.

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X011<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | D   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | C   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | B   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | A   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X012<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | D   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | C   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | B   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | A   | 02           | 02 | 06 | 06 | 06 | 06 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X013<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | D   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | C   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | B   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | A   | 06           | 06 | 06 | 06 | 02 | 02 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X014<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | D   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | C   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | B   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | A   | 10           | 10 | 10 | 10 | 10 | 10 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X015<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 04 | 04 | 04 | 04 | 04 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | 02           | 02 | 02 | 02 | 02 | 02 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
FOR METAL 1000  
RECEPTACLE (NOT  
A STANDARD METRAL  
1000 APPL.) AND  
2.30 (3.30) - 5.30 FOR  
METRAL 4000 APPL.

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
FOR METAL 1000  
RECEPTACLE (NOT  
A STANDARD METRAL  
1000 APPL.) AND  
2.30 (3.30) - 5.30 FOR  
METRAL 4000 APPL.

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
FOR METAL 1000  
RECEPTACLE (NOT  
A STANDARD METRAL  
1000 APPL.) AND  
2.30 (3.30) - 5.30 FOR  
METRAL 4000 APPL.

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
5.70 - 8.70 FOR METAL  
1000 APPL. (NOT A  
STANDARD METRAL  
1000 APPL.) AND  
6.70 - 8.70 FOR A  
METRAL 4000  
APPLICATION.

|                       |                |    |      |                                       |            |            |             |                 |                                                            |                           |      |
|-----------------------|----------------|----|------|---------------------------------------|------------|------------|-------------|-----------------|------------------------------------------------------------|---------------------------|------|
| mat'l code SEE NOTE 5 |                |    |      | tolerances unless otherwise specified |            |            |             | CUSTOMER        |                                                            | FCi<br>www.fciconnect.com |      |
| ltr                   | ecr no.        | dr | date | linear                                | 0.X ±0.3   |            |             | projection      | COPY                                                       |                           |      |
| AW                    |                |    |      |                                       | 0.XX ±0.13 |            |             |                 | title                                                      |                           |      |
|                       |                |    |      |                                       | .XXX ±.051 |            |             |                 | VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                           |      |
|                       |                |    |      | angles                                | 0° ±2°     |            |             | MM<br>scale 2:1 | product family                                             |                           | code |
|                       |                |    |      | dr                                    | K. BELL    | 2000-03-29 | METRAL 1000 |                 | 213                                                        |                           |      |
|                       |                |    |      | enrg                                  | M. HAHN    | 2000-03-29 | size        |                 | sheet                                                      |                           |      |
|                       |                |    |      | chr                                   | M. HAHN    | 2000-03-29 | dwg no      |                 | 5                                                          |                           |      |
|                       |                |    |      | appd                                  | M. HAHN    | 2000-03-29 | A           |                 | 74817                                                      |                           |      |
| sheet index           | revision sheet |    |      |                                       |            |            |             |                 |                                                            |                           |      |



| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X016<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 04 | 04 | 04 | 04 | 04 |
|                                                  | B   | 01           | 02 | 02 | 02 | 02 | 01 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X017<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | D   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | A   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X018<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | D   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | C   | 03           | 02 | 02 | 03 | 03 | 03 |
|                                                  | B   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | A   | 03           | 02 | 02 | 01 | 01 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X019<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | D   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | C   | 03           | 03 | 03 | 02 | 02 | 03 |
|                                                  | B   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | A   | 01           | 01 | 01 | 02 | 02 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X023<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 03 | 03 | 03 | 01 | 01 |
|                                                        | D   | 01           | 03 | 03 | 03 | 01 | 19 |
|                                                        | C   | 01           | 01 | 01 | 01 | 01 | 19 |
|                                                        | B   | 01           | 01 | 01 | 01 | 01 | 19 |
|                                                        | A   | 01           | 01 | 01 | 19 | 19 | 19 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X024<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | D   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | C   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | B   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | A   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X025<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | D   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | C   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | B   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | A   | 01           | 19 | 01 | 01 | 01 | 01 |
|                                                        | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X026<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | D   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | C   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | B   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | A   | 02           | 02 | 49 | 49 | 49 | 49 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X027<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | D   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | C   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | B   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | A   | 49           | 49 | 49 | 49 | 02 | 02 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X028<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | D   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | C   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | B   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | A   | 49           | 49 | 49 | 49 | 49 | 49 |
|                                                          | GND | 01           | 01 | 01 | 01 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30 FOR  
METRAL 1000 APPL.  
(NOT A STANDARD  
METRAL 1000 APPL.)  
AND 2.30 (3.30) -  
5.30 FOR METRAL  
4000 RECEPTACLE  
APPLICATION

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
3.80 - 6.80 FOR  
METRAL 1000  
RECEPTACLE APPL.  
(NOT A STANDARD  
METRAL 1000 APPL.)  
AND 2.30 (4.80) -  
6.80 FOR METRAL  
4000 APPLICATIONS

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
3.80 - 6.80 FOR  
METRAL 1000  
RECEPTACLE APPL.  
(NOT A STANDARD  
METRAL 1000 APPL.)  
AND 2.30 (4.80) -  
6.80 FOR METRAL  
4000 APPLICATIONS

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
3.80 - 6.80 FOR  
METRAL 1000  
APPLICATIONS,  
AND 4.80 - 6.80  
FOR METRAL 4000  
APPLICATIONS

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X029<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | D   | 01           | 01 | 01 | 01 | 01 | 02 |
|                                                  | C   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | A   | 01           | 01 | 03 | 01 | 01 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X030<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 03           | 02 | 03 | 02 | 02 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X031<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 01           | 03 | 02 | 03 | 02 | 02 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X032<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 01 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X033<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 19           | 19 | 19 | 19 | 19 | 19 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 01           | 02 | 02 | 02 | 02 | 03 |
|                                                  | GND | 01           | 01 | 01 | 01 | 01 | 01 |

- \* REAR PLUG-UP PART NUMBER WITH PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000 RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT PIN ALIGNER

|                       |         |                |      |                                       |            |            |                                                            |            |                                                                     |                           |                                                            |  |
|-----------------------|---------|----------------|------|---------------------------------------|------------|------------|------------------------------------------------------------|------------|---------------------------------------------------------------------|---------------------------|------------------------------------------------------------|--|
| mat'l code SEE NOTE 5 |         |                |      | tolerances unless otherwise specified |            |            |                                                            | CUSTOMER   |                                                                     | FCi<br>www.fciconnect.com |                                                            |  |
| ltr                   | ecn no. | dr             | date | linear                                | 0.X ±0.3   |            |                                                            | projection |                                                                     |                           |                                                            |  |
| AW                    |         |                |      |                                       | 0.XX ±0.13 |            |                                                            |            |                                                                     |                           |                                                            |  |
|                       |         |                |      |                                       | .XXX ±.051 |            |                                                            |            |                                                                     |                           |                                                            |  |
|                       |         |                |      | angles                                | 0° ±2°     |            |                                                            |            | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                           |                                                            |  |
|                       |         |                |      | dr                                    | K. BELL    | 2000-03-29 | product family<br>METRAL 1000<br>code<br>213<br>sheet<br>6 |            |                                                                     |                           |                                                            |  |
|                       |         |                |      | enrg                                  | M. HAHN    | 2000-03-29 |                                                            |            |                                                                     |                           |                                                            |  |
|                       |         |                |      | chr                                   | M. HAHN    | 2000-03-29 |                                                            |            |                                                                     |                           |                                                            |  |
|                       |         |                |      | appd                                  | M. HAHN    | 2000-03-29 | scale 2:1                                                  |            | size A                                                              |                           | product family<br>METRAL 1000<br>code<br>213<br>sheet<br>6 |  |
| sheet index           |         | revision sheet |      |                                       |            |            |                                                            |            |                                                                     |                           |                                                            |  |



A

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X034<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | D   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | C   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | B   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                                | A   | 05           | 20 | 05 | 05 | 05 | 05 |
| GND                                                            | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.30 (2.95) - 5.30  
(NOT A STANDARD  
METRAL 1000  
APPLICATION).  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE.

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X035<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                  | B   | 01           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 01           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X036<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 01           | 01 | 01 | 01 | 03 | 02 |
|                                                  | B   | 01           | 01 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X037<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 01           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X038<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 03 | 02 | 02 |
| GND                                              | -   | -            | -  | -  | -  | -  | -  |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X039<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | D   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | C   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | B   | 01           | 01 | 01 | 01 | 01 | 01 |
|                                                        | A   | 01           | 04 | 01 | 01 | 01 | 01 |
| GND                                                    | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X040<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | D   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | C   | 06           | 06 | 06 | 06 | 06 | 06 |
|                                                                | B   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | A   | 08           | 06 | 06 | 06 | 06 | 06 |
| GND                                                            | 06  | 06           | 06 | 06 | 06 | 06 | 06 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
4.00 - 5.30.  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE.

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X041<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 04 | 02 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 02           | 02 | 02 | 02 | 02 | 04 |
| GND                                                    | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X042<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | D   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | C   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | B   | 08           | 06 | 06 | 06 | 06 | 06 |
|                                                                | A   | 08           | 06 | 06 | 06 | 06 | 06 |
| GND                                                            | 30  | 30           | 30 | 30 | 30 | 30 | 30 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP  
APPLICATIONS:  
3.25 - 4.95 FOR  
METRAL 1000  
APPLICATIONS.  
CANNOT BE MATED  
TO A METRAL 4000  
RECEPTACLE.

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X043<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                        | D   | 03           | 03 | 03 | 03 | 01 | 03 |
|                                                        | C   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                        | B   | 03           | 03 | 03 | 03 | 03 | 03 |
|                                                        | A   | 19           | 19 | 19 | 19 | 19 | 19 |
| GND                                                    | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                                  | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                                |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X044<br>*RPU<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                                | D   | 45           | 45 | 45 | 45 | 22 | 45 |
|                                                                | C   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                                | B   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                                | A   | 47           | 47 | 47 | 47 | 47 | 47 |
| GND                                                            | 22  | 22           | 22 | 22 | 22 | 22 | 22 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.95 - 3.80 FOR  
MATING TO  
METRAL 1000  
RECEPTACLE.  
CANNOT BE MATED  
TO METRAL 4000  
RECEPTABLES.

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X045<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 2  |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 01 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X046<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                          | D   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                          | C   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                          | B   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                          | A   | 22           | 22 | 22 | 22 | 22 | 22 |
| GND                                                      | 01  | 22           | 22 | 22 | 22 | 01 | 01 |

PCB THICKNESS  
RANGE FOR REAR  
PLUG UP APPL.:  
2.95 - 3.80 FOR  
BOTH METRAL  
1000 AND 4000  
RECEPTACLE  
MATING (NOT A  
STANDARD METRAL  
1000 APPLICATION)

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X047<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 01 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 01  | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X048<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
| GND                                              | 02  | 02           | 02 | 02 | 02 | 02 | 02 |

A

- \* REAR PLUG-UP PART NUMBER WITH  
PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000  
RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT  
PIN ALIGNER

|                          |         |          |      |                                          |            |            |      |               |                                                                     |                           |             |
|--------------------------|---------|----------|------|------------------------------------------|------------|------------|------|---------------|---------------------------------------------------------------------|---------------------------|-------------|
| mat'l code<br>SEE NOTE 5 |         |          |      | tolerances unless<br>otherwise specified |            |            |      | CUSTOMER      |                                                                     | FCJ<br>www.fciconnect.com |             |
| ltr                      | ecr no. | dr       | date | linear                                   | 0.X ±0.3   |            |      | projection    | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                           |             |
| AW                       |         |          |      |                                          | 0.XX ±0.13 |            |      |               |                                                                     |                           |             |
|                          |         |          |      |                                          | .XXX ±.051 |            |      |               |                                                                     |                           |             |
|                          |         |          |      | angles                                   | 0° ±2°     |            |      | <br>MM<br>2:1 | product family                                                      |                           | METRAL 1000 |
|                          |         |          |      | dr                                       | K. BELL    | 2000-03-29 | size |               | dwg no                                                              | 213                       |             |
|                          |         |          |      | enrg                                     | M. HAHN    | 2000-03-29 | A    |               | 74817                                                               | sheet                     |             |
|                          |         |          |      | chr                                      | M. HAHN    | 2000-03-29 |      |               | 7                                                                   |                           |             |
|                          |         |          |      | appd                                     | M. HAHN    | 2000-03-29 |      |               |                                                                     |                           |             |
| sheet                    |         | revision |      |                                          |            |            |      |               |                                                                     |                           |             |
| index                    |         | sheet    |      |                                          |            |            |      |               |                                                                     |                           |             |

B



| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X049<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X050<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | D   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | C   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | B   | 02           | 02 | 02 | 02 | 02 | 04 |
|                                                        | A   | 02           | 01 | 02 | 02 | 02 | 04 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X051<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 04           | 01 | 02 | 02 | 02 | 02 |
|                                                        | GND | 02           | 02 | 02 | 02 | 02 | 02 |

| METRAL<br>P/N                                              | ROW | CONTACT CODE |    |    |    |    |    |
|------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                            |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X052<br>***RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | D   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | C   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | B   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | A   | 05           | 05 | 05 | 05 | 05 | 05 |
|                                                            | GND | 01           | 01 | 01 | 01 | 01 | 01 |

| METRAL<br>P/N                                              | ROW | CONTACT CODE |    |    |    |    |    |
|------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                            |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X053<br>***RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | D   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | C   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | B   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | A   | 05           | 20 | 05 | 05 | 05 | 05 |
|                                                            | GND | 01           | 01 | 01 | 01 | 01 | 01 |

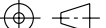
- \* REAR PLUG-UP PART NUMBER WITH  
PIN ALIGNER
- \*\* CANNOT BE MATED TO A METRAL 4000  
RECEPTACLE
- \*\*\* REAR PLUG-UP PART NUMBER WITHOUT  
PIN ALIGNER

| METRAL<br>P/N                                              | ROW | CONTACT CODE |    |    |    |    |    |
|------------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                            |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X054<br>***RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | D   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | C   | 45           | 45 | 45 | 45 | 45 | 45 |
|                                                            | B   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | A   | 22           | 22 | 22 | 22 | 22 | 22 |
|                                                            | GND | 01           | 22 | 22 | 22 | 22 | 01 |

| METRAL<br>P/N                                          | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                        |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X055<br>**<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | D   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | B   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | A   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                        | GND | -            | 02 | 02 | 02 | 02 | -  |

| METRAL<br>P/N                                    | ROW | CONTACT CODE |    |    |    |    |    |
|--------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                  |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X056<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | D   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | C   | 04           | 02 | 02 | 02 | 02 | 02 |
|                                                  | B   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | A   | 02           | 02 | 02 | 02 | 02 | 02 |
|                                                  | GND | -            | 02 | 02 | 02 | 02 | -  |

| METRAL<br>P/N                                            | ROW | CONTACT CODE |    |    |    |    |    |
|----------------------------------------------------------|-----|--------------|----|----|----|----|----|
|                                                          |     | 1            | 2  | 3  | 4  | 5  | 6  |
| 74817-X057<br>*RPU<br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | D   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | C   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | B   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | A   | 22           | 22 | 22 | 01 | 01 | 01 |
|                                                          | GND | 22           | 22 | 22 | 22 | 22 | 22 |

|                          |                   |    |      |                                          |              |            |  |          |                                                                                                               |                                                                                                             |  |            |  |      |  |
|--------------------------|-------------------|----|------|------------------------------------------|--------------|------------|--|----------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|------------|--|------|--|
| 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   |            |  |          | projection<br>           | COPY                                                                                                        |  |            |  |      |  |
| AW                       |                   |    |      |                                          | 0. XX ± 0.13 |            |  |          |                                                                                                               | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD.                                         |  |            |  |      |  |
|                          |                   |    |      |                                          | . XXX ± .051 |            |  |          |                                                                                                               |                                                                                                             |  |            |  |      |  |
|                          |                   |    |      | angles                                   | 0° ± 2°      |            |  |          | <br>MM<br>scale<br>2 : 1 | product family METRAL 1000                                                                                  |  |            |  | code |  |
|                          |                   |    |      | dr                                       | K. BELL      | 2000-03-29 |  | size     |                                                                                                               | dwg no                                                                                                      |  | 213        |  |      |  |
|                          |                   |    |      | enrg                                     | J. VOLSTORF  | 2001-05-23 |  |          |                                                                                                               |                                                                                                             |  |            |  |      |  |
|                          |                   |    |      | chr                                      | M. HAHN      | 2000-03-29 |  |          |                                                                                                               |                                                                                                             |  |            |  |      |  |
|                          |                   |    |      | appd                                     | M. HAHN      | 2000-03-29 |  |          |                                                                                                               |                                                                                                             |  | sheet<br>8 |  |      |  |
| sheet<br>index           | revision<br>sheet |    |      |                                          |              |            |  |          |                                                                                                               |                                                                                                             |  |            |  |      |  |



PRODUCT NUMBER

SEE SHEET 1

## NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT 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 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.  
PIN MATERIAL: PHOSPHOR BRONZE  
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING OF "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-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

8. 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.
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 74817-XZZZLF



14. THE PRODUCTS WHERE THE PART NUMBERS 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.
15. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX.  
EXAMPLE: 74817-XXXXLF
16. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

|                          |                   |    |      |                                          |             |            |              |                           |                                                                     |  |             |      |            |
|--------------------------|-------------------|----|------|------------------------------------------|-------------|------------|--------------|---------------------------|---------------------------------------------------------------------|--|-------------|------|------------|
| mat'l code<br>SEE NOTE 5 |                   |    |      | tolerances unless<br>otherwise specified |             | CUSTOMER   |              | FCI<br>www.fciconnect.com |                                                                     |  |             |      |            |
| ltr                      | ecr no.           | dr | date | linear                                   | 0. X ±0.3   |            | COPY         |                           | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |  |             |      |            |
| AW                       |                   |    |      |                                          | 0. XX ±0.13 |            | projection   |                           |                                                                     |  |             |      |            |
|                          |                   |    |      | angles                                   | . XXX ±.051 |            |              |                           |                                                                     |  |             |      |            |
|                          |                   |    |      |                                          | 0° ±2°      |            |              |                           |                                                                     |  |             |      |            |
|                          |                   |    |      | dr                                       | K. BELL     | 2000-03-29 | MM<br>       |                           | product family                                                      |  | METRAL 1000 | code |            |
|                          |                   |    |      | enrg                                     | M. HAHN     | 2000-03-29 |              |                           | size                                                                |  | dwg no      |      | 213        |
|                          |                   |    |      | chr                                      | M. HAHN     | 2000-03-29 | scale<br>1:1 |                           | A                                                                   |  | 74817       |      |            |
|                          |                   |    |      | appd                                     | M. HAHN     | 2000-03-29 |              |                           |                                                                     |  |             |      |            |
| sheet<br>index           | revision<br>sheet |    |      |                                          |             |            |              |                           |                                                                     |  |             |      | sheet<br>9 |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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