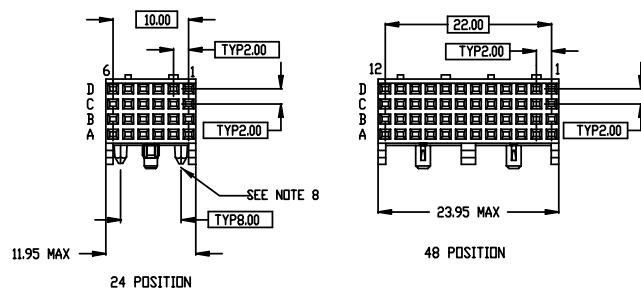
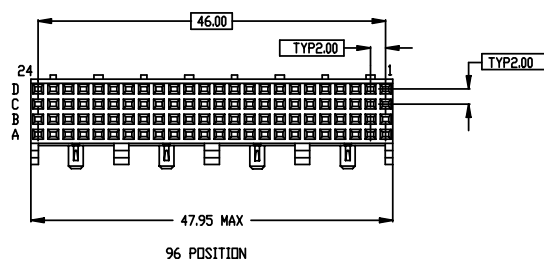


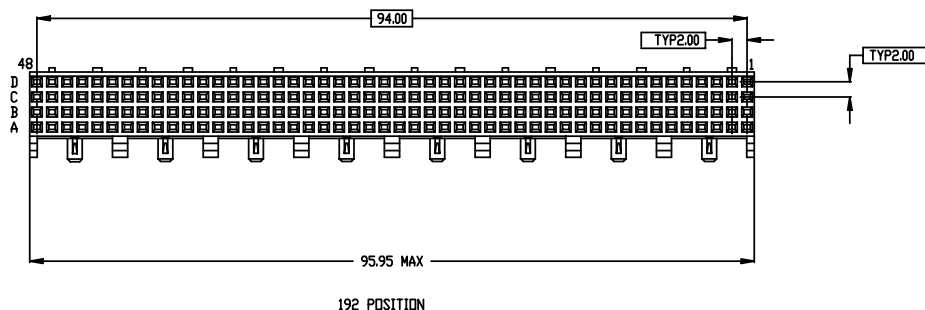
A



B



C



NOTES: UNLESS OTHERWISE SPECIFIED;

- 1 CONNECTOR MATERIALS:  
HOUSING: GLASS FILLED THERMOPLASTIC,  
UL94-V0 COMPLIANT  
KEEPER: GLASS FILLED THERMOPLASTIC,  
UL94-V0 COMPLIANT  
TERMINAL: PHOSPHOR BRONZE ALLOY
- 2 PACKED IN TUBES.
- 3 FEATURE MAY OR MAY NOT BE PRESENT DEPENDING UPON THE MOLD TOOL USED TO PRODUCE PRODUCT.
- 4 PRODUCT SPECIFICATION: GS-12-177.
- 5 APPLICATION SPECIFICATION: GS-20-015.  
UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- 6 THE PRODUCTS WHERE THE PART NUMBER ENDS IN 'LF' MEET THE EUROPEAN
- 7 ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- 8 LOCATION PEGS ARE EXISTED ONLY IN ONE MODULE

A

B

C

D



Copyright FCI.

| rev | ecn no    | dr   | date     |
|-----|-----------|------|----------|
| M   | V04-1123  | TAB  | 02/03/05 |
| N   | V05-0437  | VS   | 07/14/05 |
| P   | V05-1026  | JRV  | 11/7/05  |
| R   | DG06-0378 | KL   | 09/01/06 |
| S   | DG06-0434 | Cenh | 10/23/06 |
| T   | DG08-0173 | TER  | 7/11/08  |
| U   | N10-0382  | Cenh | 11/13/10 |

|                    |              |          |                         |               |            |          |              |
|--------------------|--------------|----------|-------------------------|---------------|------------|----------|--------------|
| www.fciconnect.com |              |          | surface                 | tolerance std | projection | MM       |              |
|                    |              |          | ANGULAR                 | LINEAR        | size       | Scale    |              |
| Dr                 | V. SEBASTIAN | 07/14/05 | 0.X                     | ± 0.50        | A4         | 4:1      |              |
| Eng                | J. VOLSTROF  | 07/14/05 | 0.XX                    | ± 0.13        | ECN        | N10-0382 |              |
| Chr                | J. VOLSTROF  | 07/14/05 | 0.XXX                   | ± -           | Spec ref   |          |              |
| Appr               | J. VOLSTROF  | 07/14/05 | Product family          |               | METRAL     |          |              |
|                    |              |          | title                   |               |            | dwg no   | Rev.         |
|                    |              |          | T SERIES R/A RECEPTACLE |               |            | SE96846  | U            |
|                    |              |          | catalog no              |               |            | CUSTOMER | sheet 1 of 4 |

1

2

3

4

A

B

C

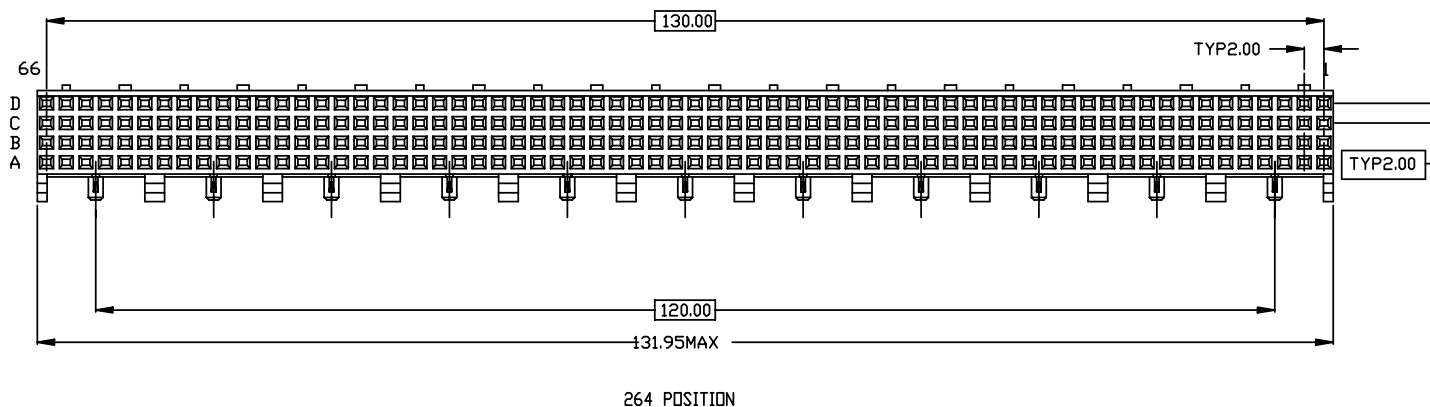
D

A

B

C

D



Copyright FCI.

|                    |                                                |          |                                       |        |               |                |            |              |  |  |
|--------------------|------------------------------------------------|----------|---------------------------------------|--------|---------------|----------------|------------|--------------|--|--|
| www.fciconnect.com |                                                |          | surface                               |        | tolerance std |                | projection |              |  |  |
|                    |                                                |          | TOLERANCES UNLESS OTHERWISE SPECIFIED |        |               |                |            |              |  |  |
| Dr                 | V. SEBASTIAN                                   | 07/14/05 | ANGULAR                               | LINEAR | 0.X           | ± 0.50         | size A4    | Scale 4:1    |  |  |
| Eng                | J. VOLSTROF                                    | 07/14/05 |                                       |        | 0.XX          | ± 0.13         |            |              |  |  |
| Chr                | J. VOLSTROF                                    | 07/14/05 |                                       |        | 0.XXX         | ± -            |            |              |  |  |
| Appr               | J. VOLSTROF                                    | 07/14/05 | Product family                        |        |               | METRAL         | Spec ref   |              |  |  |
|                    | title T SERIES R/A RECEPTACLE ASSY, 4 ROW, STB |          |                                       |        |               | dwg no SE96846 | Rev U      |              |  |  |
|                    |                                                |          |                                       |        |               |                |            |              |  |  |
|                    | catalog no                                     |          |                                       |        |               | CUSTOMER       |            | sheet 2 of 4 |  |  |

REV F - 2006-04-17

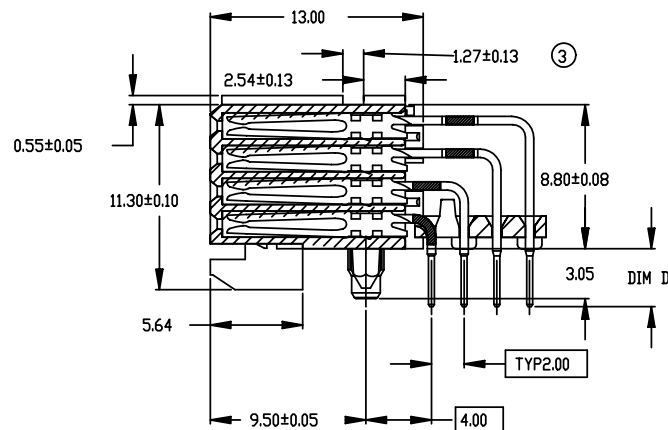
1

2

3 PDM: Rev:U

STATUS: Released

4 Printed: Dec 01, 2010

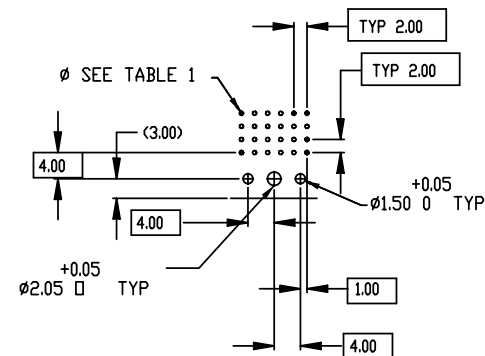
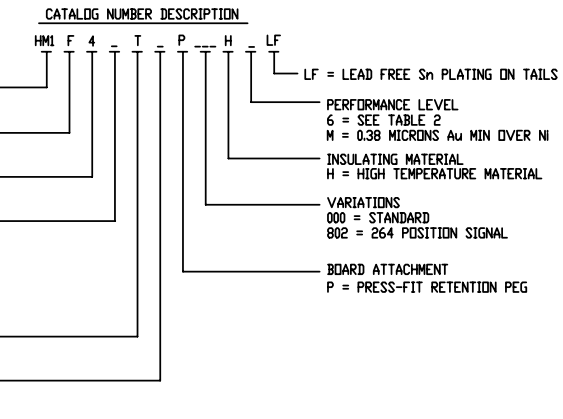


|                       | PCB THICKNESS | DIM D      | RETENTION FEATURES |
|-----------------------|---------------|------------|--------------------|
| HM1 F 4_ T A R 000 H6 | 1.60          | 2.90±0.30  | HEAT STAKE PEGS    |
| HM1 F 4_ T B R 000 H6 | 2.40          | 3.60±0.30  |                    |
| HM1 F 4_ T A P 000 H6 | 1.60          | 2.90 ±0.30 | PRESS-FIT PEGS     |
| HM1 F 4_ T B P 000 H6 | 2.40          | 3.60 ±0.30 |                    |
| HM1 F 49 T A P 802 H6 | 1.60          | 2.90 ±0.30 |                    |

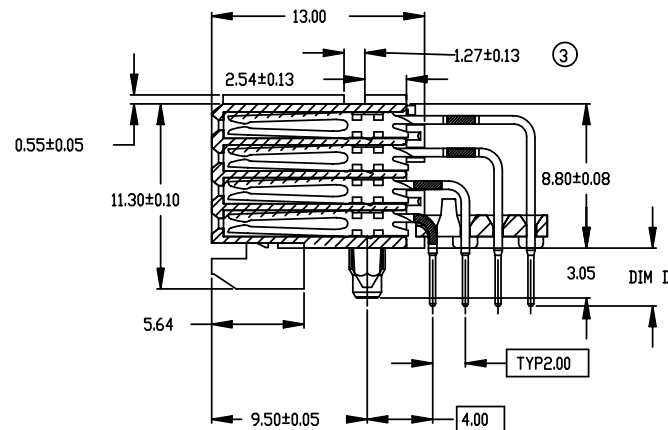
TABLE 2

| CODE | CONTACT AREA                                                                              | PERFORMANCE LEVEL |
|------|-------------------------------------------------------------------------------------------|-------------------|
| 6    | 0.75um Au min over 1.3um Ni min<br>or 0.68um PdNi min<br>+0.08um Au min over 1.3um Ni min | TELCORDIA CD      |

**OBSELETE**

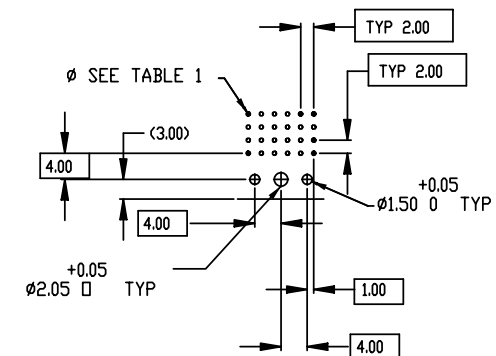


RECOMMENDED PC BOARD LAYOUT,  
COMPONENT SIDE  
SEE PRINT 58351 FOR ADDITIONAL  
PCB INFORMATION



|                          | PCB THICKNESS | DIM D      | RETENTION FEATURES |
|--------------------------|---------------|------------|--------------------|
| HMI F 4_ T A P 400 H__LF | 1.60          | 2.90 ±0.30 | PRESS-FIT PEGS     |
| HMI F 4_ T B P 400 H__LF | 2.40          | 3.60 ±0.30 |                    |

| CATALOG NUMBER DESCRIPTION                                                                                                                                               |                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT FAMILY<br>HMI = METRAL HMI                                                                                                                                       | HMI                                                                                                                                                                              |
| PRODUCT TYPE<br>F = FEMALE SIGNAL, RIGHT ANGLE                                                                                                                           | F                                                                                                                                                                                |
| NUMBER OF ROWS<br>4 = 4 ROW                                                                                                                                              | 4                                                                                                                                                                                |
| BODY LENGTH<br>1 = 12.00 (24 POSITION SIGNAL)<br>2 = 24.00 (48 POSITION SIGNAL)<br>3 = 48.00 (96 POSITION SIGNAL)<br>4 = 96.00 (192 POSITION SIGNAL)<br>9 = NON-STANDARD | 4                                                                                                                                                                                |
| MATING CONTACT<br>T = TWISTED FEMALE                                                                                                                                     | T                                                                                                                                                                                |
| PCB TERMINATION TYPE<br>A = SOLDER TAIL, FOR 1.60mm PCB<br>B = SOLDER TAIL, FOR 2.40mm PCB                                                                               | 4                                                                                                                                                                                |
|                                                                                                                                                                          | -                                                                                                                                                                                |
|                                                                                                                                                                          | P 400                                                                                                                                                                            |
|                                                                                                                                                                          | H                                                                                                                                                                                |
|                                                                                                                                                                          | -                                                                                                                                                                                |
|                                                                                                                                                                          | LF                                                                                                                                                                               |
|                                                                                                                                                                          | LF = LEAD FREE Sn PLATING ON TAILS                                                                                                                                               |
|                                                                                                                                                                          | P = PACKAGED IN TRAYS                                                                                                                                                            |
|                                                                                                                                                                          | - = SEE PACKAGE SPEC GS-14-1228                                                                                                                                                  |
|                                                                                                                                                                          | PERFORMANCE LEVEL<br>6 = TELCORDIA CD                                                                                                                                            |
|                                                                                                                                                                          | E = CUSTOMER SPECIAL<br>0.75 $\mu$ m GOLD SELECTIVE PLATING                                                                                                                      |
|                                                                                                                                                                          | INSULATING MATERIAL<br>H = HIGH TEMPERATURE MATERIAL                                                                                                                             |
|                                                                                                                                                                          | SPECIAL DATAS:<br>VISUAL INSPECTION: 100%<br>- MARKING FAILURES<br>- HOUSING MATERIAL FAILURES<br>- SPOULT HOUSING<br>- STAINED HOUSING<br>- BROKEN CONTACTS (Twisted or Loosen) |
|                                                                                                                                                                          | BOARD ATTACHMENT<br>P = PRESS-FIT RETENTION PEG                                                                                                                                  |



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

|                                                                                       |              |                                             |                                             |          |               |                   |                                                                                                  |           |                                                                                          |              |
|---------------------------------------------------------------------------------------|--------------|---------------------------------------------|---------------------------------------------|----------|---------------|-------------------|--------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------|--------------|
| www.fciconnect.com                                                                    |              |                                             | surface <input checked="" type="checkbox"/> |          | tolerance std |                   | projection  |           | MM  |              |
|                                                                                       |              |                                             | TOLERANCES UNLESS OTHERWISE SPECIFIED       |          |               |                   |                                                                                                  |           |                                                                                          |              |
| Dr                                                                                    | V. SEBASTIAN | 07/14/05                                    | ANGULAR                                     |          | LINEAR        | 0.X               | ± 0.50                                                                                           | size      | A4                                                                                       | Scale<br>4:1 |
| Eng                                                                                   | J. VOLSTROF  | 07/14/05                                    |                                             |          |               | 0.XX              | ± 0.13                                                                                           |           |                                                                                          |              |
| Chr                                                                                   | J. VOLSTROF  | 07/14/05                                    | 0°                                          | ±2°      |               | 0.XXX             | ± -                                                                                              | ECN       |                                                                                          | N10-0382     |
| Appr                                                                                  | J. VOLSTROF  | 07/14/05                                    | Product family                              |          |               | METRAL            |                                                                                                  | Spec ref  |                                                                                          |              |
|  |              | T SERIES R/A RECEPTACLE<br>ASSY, 4 ROW, STB |                                             |          |               | dwg no<br>SE96846 |                                                                                                  | Rev.<br>U |                                                                                          |              |
|                                                                                       |              |                                             |                                             |          |               |                   |                                                                                                  |           |                                                                                          |              |
|                                                                                       |              | catalog no                                  |                                             | CUSTOMER |               | sheet 4 of 4      |                                                                                                  |           |                                                                                          |              |