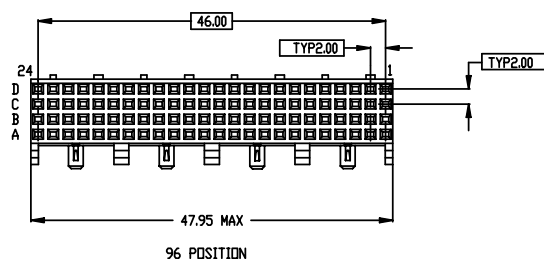


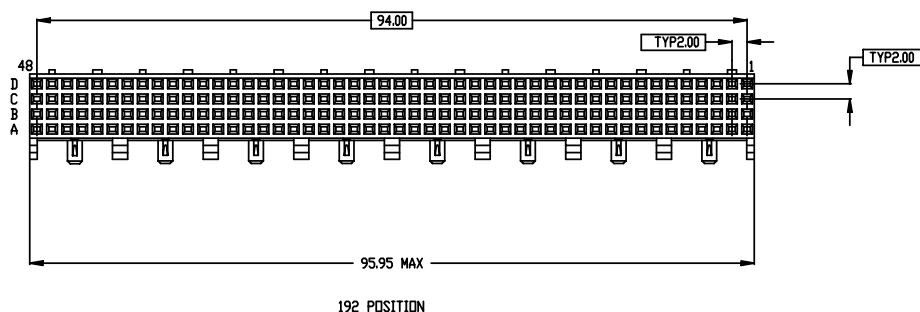
A



B



C



D

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

SE96846

1

2

3

4

A

B

C

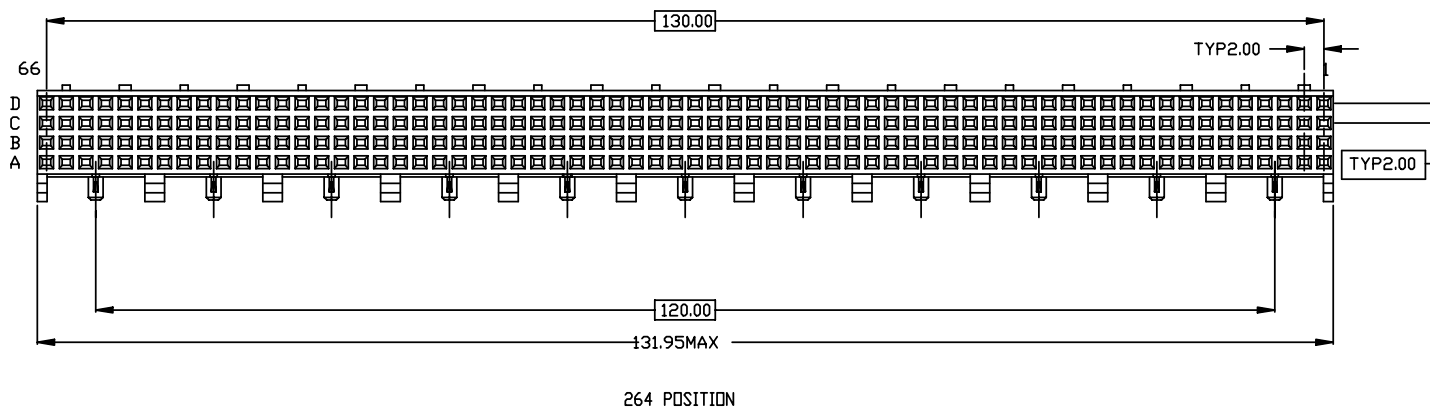
D

A

B

C

D



|                                                                                       |                                                      |          |                                                                                               |        |                     |                   |                                                                                                  |              |                                                                                       |  |
|---------------------------------------------------------------------------------------|------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|--------|---------------------|-------------------|--------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|--|
| 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<br>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<br>T SERIES R/A RECEPTACLE<br>ASSY, 4 ROW, STB |          |                                                                                               |        |                     | dwg no<br>SE96846 |                                                                                                  | Rev<br>U     |                                                                                       |  |
|                                                                                       |                                                      |          |                                                                                               |        |                     |                   |                                                                                                  |              |                                                                                       |  |
|                                                                                       | catalog no                                           |          |                                                                                               |        |                     | CUSTOMER          |                                                                                                  | sheet 2 of 4 |                                                                                       |  |

REV F - 2006-04-17

1

2

3 PDM: Rev:U

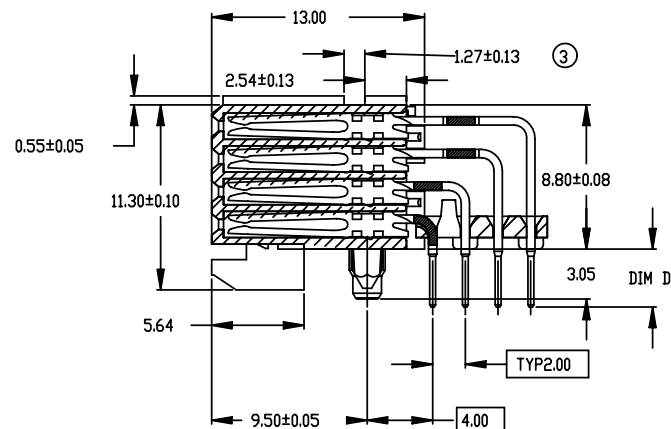
STATUS: Released

4 Printed: Dec 01, 2010



Copyright FCI.





|                          | 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  
HMI = METRAL HMI

PRODUCT TYPE  
F = FEMALE SIGNAL, RIGHT ANGLE

NUMBER OF ROWS  
4 = 4 ROW

BODY LENGTH  
1 = 12.00 (24 POSITION SIGNAL)  
2 = 24.00 (48 POSITION SIGNAL)  
3 = 48.00 (96 POSITION SIGNAL)  
4 = 96.00 (192 POSITION SIGNAL)  
9 = NON-STANDARD

MATING CONTACT  
T = TWISTED FEMALE

PCB TERMINATION TYPE  
A = SOLDER TAIL, FOR 1.60mm PCB  
B = SOLDER TAIL, FOR 2.40mm PCB

BOARD ATTACHMENT  
P = PRESS-FIT RETENTION PEG

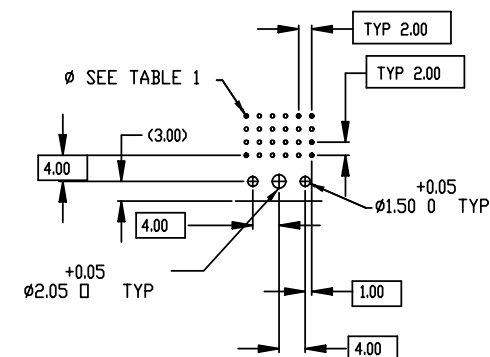
PERFORMANCE LEVEL  
6 = TELCORDIA CO  
E = CUSTOMER SPECIAL  
0.75  $\mu$ m GOLD SELECTIVE PLATING

INSULATING MATERIAL  
H = HIGH TEMPERATURE MATERIAL

SPECIAL DATAS:  
- VISUAL INSPECTION: 100%  
- MARKING FAILURES  
- HOUSING MATERIAL FAILURES  
- SPOILT HOUSING  
- STAINED HOUSING  
- BROKEN CONTACTS (Twisted or Loosen)

LF = LEAD FREE Sn PLATING ON TAILS

P = PACKAGED IN TRAYS  
- = SEE PACKAGE SPEC GS-14-1228



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

|                                                                                       |                                             |            |                                                                                               |     |                     |                   |                                                                                                  |          |                                                                                       |              |
|---------------------------------------------------------------------------------------|---------------------------------------------|------------|-----------------------------------------------------------------------------------------------|-----|---------------------|-------------------|--------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|--------------|
| 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<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                                                                          |              |