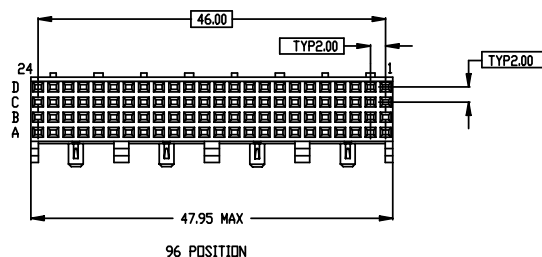


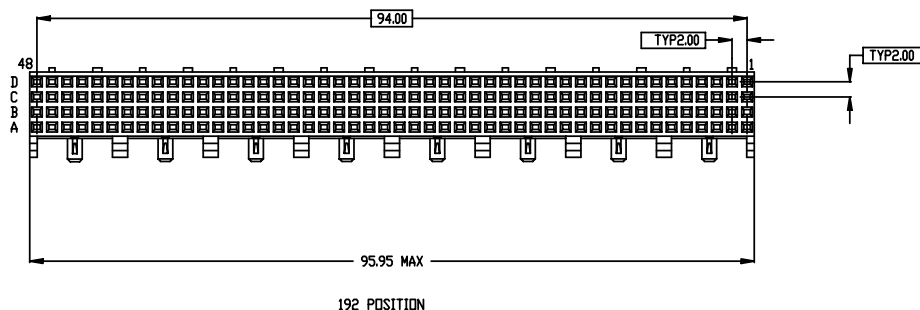
A



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°                                          | ±2°           | 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     |              |
| FCI                       |  |  | title                                       |               | dwg no     | Rev.         |
|                           |  |  | T SERIES R/A RECEPTACLE                     |               | SE96846    | U            |
|                           |  |  | ASSY, 4 ROW, STB                            |               |            |              |
|                           |  |  | catalog no                                  |               | CUSTOMER   | sheet 1 of 4 |

1

2

3

4

A

B

C

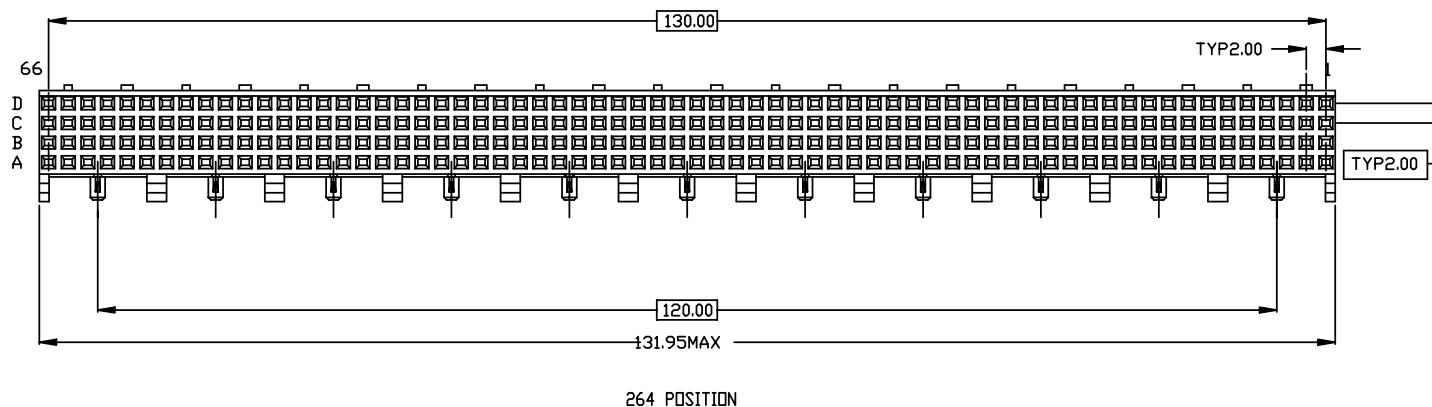
D

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 4:1                                                                             |  |
| Eng                                                                                   | J. VOLSTROF                                          | 07/14/05 |                                                                                               |        | 0.XX                | ± 0.13            |                                                                                                  |              |                                                                                       |  |
| Chr                                                                                   | J. VOLSTROF                                          | 07/14/05 |                                                                                               |        | 0.XXX               | ± -               | ECN                                                                                              |              | N10-0382                                                                              |  |
| 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

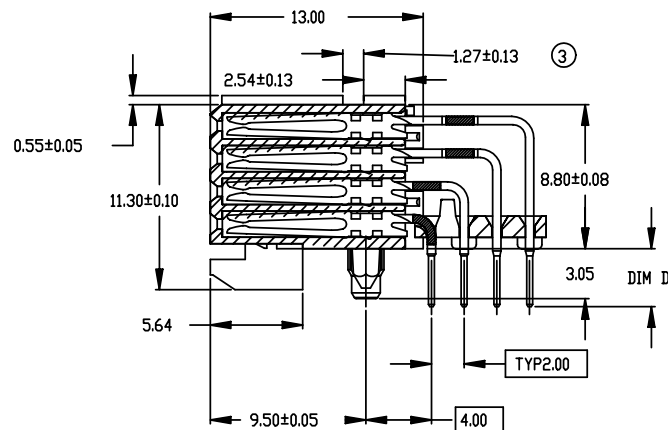
3 PDM: Rev:U

STATUS: Released

4 Printed: Dec 01, 2010



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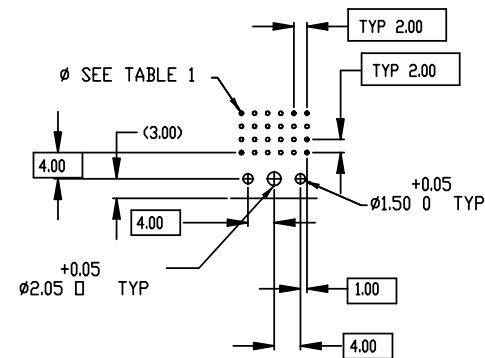
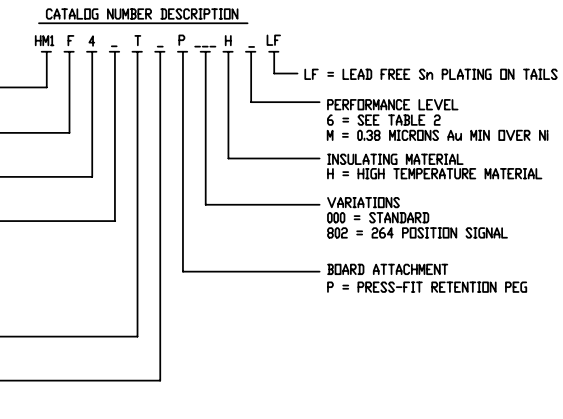


|                       | PCB THICKNESS | DIM D      | RETENTION FEATURES |
|-----------------------|---------------|------------|--------------------|
| HM1 F 4 T A R 000 H6  | 1.60          | 2.90±0.30  | HEAT STAKE PEGS    |
| HM1 F 4 T B R 000 H6  | 2.40          | 3.60±0.30  |                  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

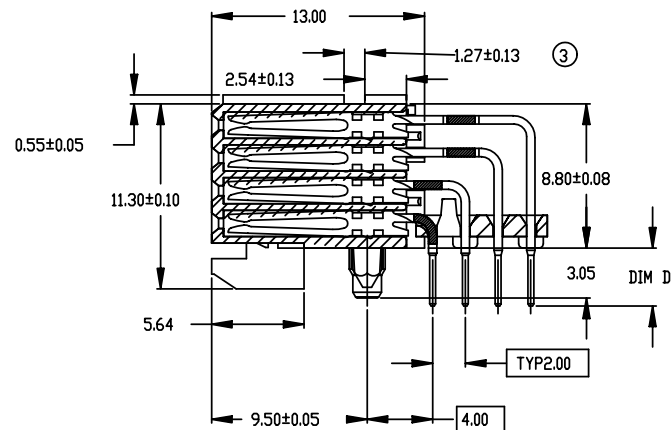
TABLE 2

| 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**

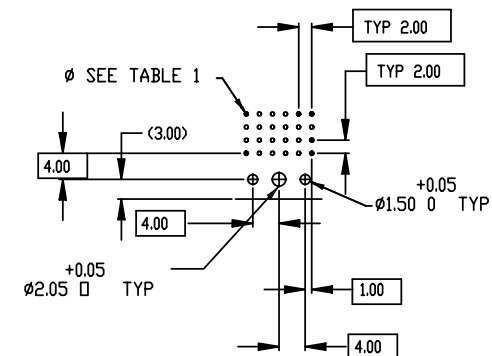


RECOMMENDED PC BOARD LAYOUT,  
COMPONENT SIDE  
SEE PRINT 58351 FOR ADDITIONAL  
PCB INFORMATION



|                          | 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                                                                               | P                                     |
|                                                                                                                                                                          | 400                                   |
|                                                                                                                                                                          | H                                     |
|                                                                                                                                                                          | =                                     |
|                                                                                                                                                                          | LF                                    |
|                                                                                                                                                                          | LF = LEAD FREE Sn PLATING ON TAILS    |
|                                                                                                                                                                          | P = PACKAGED IN TRAYS                 |
|                                                                                                                                                                          | = = SEE PACKAGE SPEC GS-14-1228       |
|                                                                                                                                                                          | 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 METAL FAILURES              |
|                                                                                                                                                                          | - SPOILT HOUSING                      |
|                                                                                                                                                                          | - STAINED HOUSING                     |
|                                                                                                                                                                          | - BROKEN CONTACTS (Twisted or Loosen) |
|                                                                                                                                                                          | BOARD ATTACHMENT                      |
|                                                                                                                                                                          | 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<br>N10-0382 |                                                                                          |              |  |
| 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 4 of 4                                                                             |              |  |



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

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.