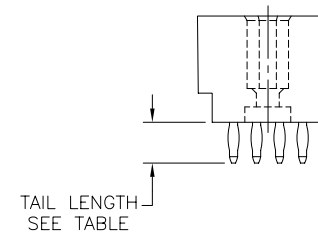
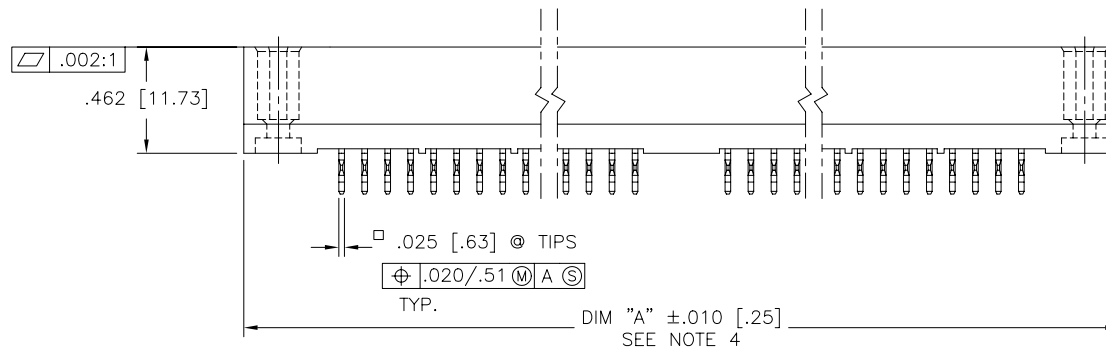
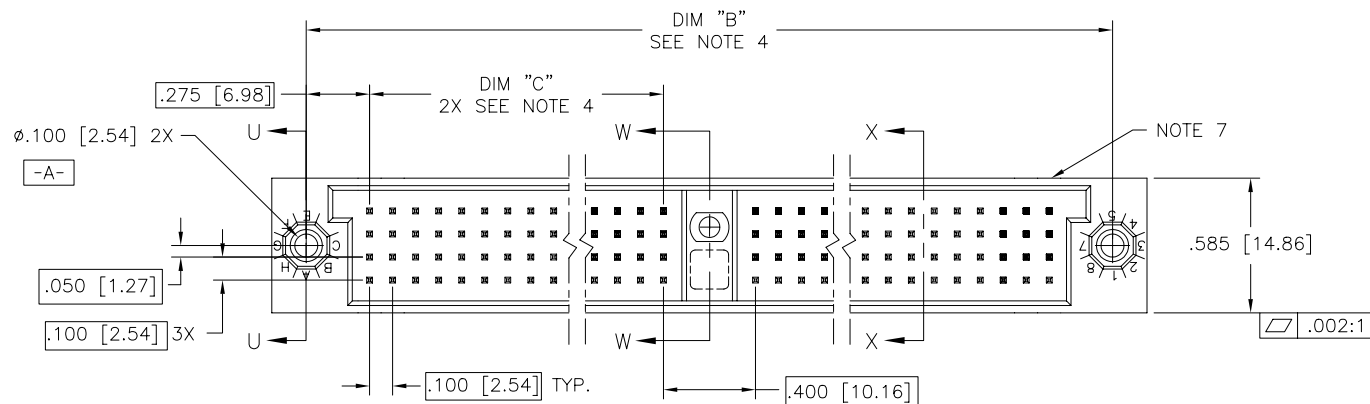




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| mat'l. code<br>NOTE 3                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                 |          | surface<br>ISO 1302 ✓                                                                                                                                                                                                                              |                                                                                                                                                                                                                                 | tolerance<br>ISO 406<br>ISO 1101 |         | projection<br> |                                                                                       | product family<br>HPC                                      |        |  |  |              |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------|--------|--|--|--------------|------|
| ltr                                                                                                                                                                                                                                                                                                     | ecn no                                                                                                                                                                                                                                                                                        | dr                                                                                                                                                                                                                                                                              | date     | tolerances unless otherwise specified                                                                                                                                                                                                              |                                                                                                                                                                                                                                 |                                  |         | INCH/MM<br><br>scale 1:1                                                                            |                                                                                       | title<br>4 ROW VERTICAL HEADER<br>W/PRESS FIT PINS, 1 G.P. |        |  |  |              |      |
| E                                                                                                                                                                                                                                                                                                       | V40285                                                                                                                                                                                                                                                                                        | PCP                                                                                                                                                                                                                                                                             | 1/20/94  | angles                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                 | linear                           |         |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |
| F <td>V40941</td> <td>PCP</td> <td>6/01/94</td> <td colspan="2"></td> <td colspan="2">.XX ±.01/.3</td> <td colspan="2"></td> <td colspan="4"></td>                                                                                                                                                      | V40941                                                                                                                                                                                                                                                                                        | PCP                                                                                                                                                                                                                                                                             | 6/01/94  |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                 | .XX ±.01/.3                      |         |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |
| G <td>V82253<td>HTB</td><td>12/28/98</td><td colspan="2">0±2'</td><td colspan="2">.XXX ±.005/.13</td><td colspan="2"></td><td colspan="4"></td></td>                                                                                                                                                    | V82253 <td>HTB</td> <td>12/28/98</td> <td colspan="2">0±2'</td> <td colspan="2">.XXX ±.005/.13</td> <td colspan="2"></td> <td colspan="4"></td>                                                                                                                                               | HTB                                                                                                                                                                                                                                                                             | 12/28/98 | 0±2'                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                 | .XXX ±.005/.13                   |         |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |
|                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                 |          |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                 | .XXXX ±.0020/.051                |         |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |
| H <td>V00271<td>JWS<td>1/31/00</td><td>dr<td colspan="2">D. SHEAFFER<td colspan="2">3/14/91</td><td colspan="2" rowspan="4"></td><td colspan="3">dwg no</td><td>sheet 1 of 4</td><td>size</td></td></td></td></td> | V00271 <td>JWS<td>1/31/00</td><td>dr<td colspan="2">D. SHEAFFER<td colspan="2">3/14/91</td><td colspan="2" rowspan="4"></td><td colspan="3">dwg no</td><td>sheet 1 of 4</td><td>size</td></td></td></td> | JWS <td>1/31/00</td> <td>dr<td colspan="2">D. SHEAFFER<td colspan="2">3/14/91</td><td colspan="2" rowspan="4"></td><td colspan="3">dwg no</td><td>sheet 1 of 4</td><td>size</td></td></td> | 1/31/00  | dr <td colspan="2">D. SHEAFFER<td colspan="2">3/14/91</td><td colspan="2" rowspan="4"></td><td colspan="3">dwg no</td><td>sheet 1 of 4</td><td>size</td></td> | D. SHEAFFER <td colspan="2">3/14/91</td> <td colspan="2" rowspan="4"></td> <td colspan="3">dwg no</td> <td>sheet 1 of 4</td> <td>size</td> |                                  | 3/14/91 |                                                                                                     |  |                                                            | dwg no |  |  | sheet 1 of 4 | size |
| J <td>V05-0758<td>DAI<td>9/12/05</td><td>enrg<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="3">50010</td><td>A3</td></td></td></td></td>                                                                                                                                              | V05-0758 <td>DAI<td>9/12/05</td><td>enrg<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="3">50010</td><td>A3</td></td></td></td>                                                                                                                                              | DAI <td>9/12/05</td> <td>enrg<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="3">50010</td><td>A3</td></td></td>                                                                                                                                                | 9/12/05  | enrg <td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="3">50010</td><td>A3</td></td>                                                                                                                                                | S. CLARK <td colspan="2">3/14/91</td> <td colspan="3">50010</td> <td>A3</td>                                                                                                                                                    |                                  | 3/14/91 |                                                                                                     |                                                                                       |                                                            | 50010  |  |  | A3           |      |
| K <td>V05-1039<td>DAI<td>11/11/05</td><td>chr<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td></td></td></td>                                                                                                                                                              | V05-1039 <td>DAI<td>11/11/05</td><td>chr<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td></td></td>                                                                                                                                                              | DAI <td>11/11/05</td> <td>chr<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td></td>                                                                                                                                                                | 11/11/05 | chr <td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td>                                                                                                                                                                 | S. CLARK <td colspan="2">3/14/91</td> <td colspan="4"></td>                                                                                                                                                                     |                                  | 3/14/91 |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |
| L <td>M06-0261<td>AEA<td>7/08/06</td><td>appd<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td></td></td></td>                                                                                                                                                              | M06-0261 <td>AEA<td>7/08/06</td><td>appd<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td></td></td>                                                                                                                                                              | AEA <td>7/08/06</td> <td>appd<td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td></td>                                                                                                                                                                | 7/08/06  | appd <td colspan="2">S. CLARK<td colspan="2">3/14/91</td><td colspan="4"></td></td>                                                                                                                                                                | S. CLARK <td colspan="2">3/14/91</td> <td colspan="4"></td>                                                                                                                                                                     |                                  | 3/14/91 |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |
| sheet                                                                                                                                                                                                                                                                                                   | revision                                                                                                                                                                                                                                                                                      | L                                                                                                                                                                                                                                                                               | L        | L                                                                                                                                                                                                                                                  | L                                                                                                                                                                                                                               |                                  |         |                                                                                                     |                                                                                       | type Product Customer Drawing                              |        |  |  |              |      |
| index                                                                                                                                                                                                                                                                                                   | sheet                                                                                                                                                                                                                                                                                         | 1                                                                                                                                                                                                                                                                               | 2        | 3                                                                                                                                                                                                                                                  | 4                                                                                                                                                                                                                               |                                  |         |                                                                                                     |                                                                                       |                                                            |        |  |  |              |      |

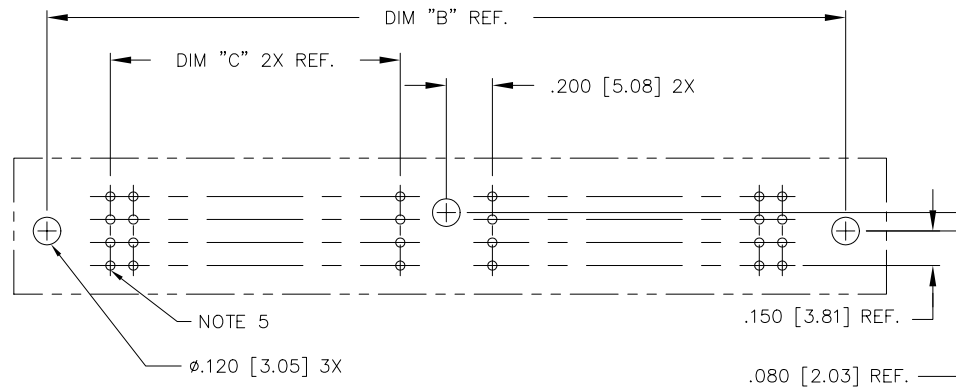
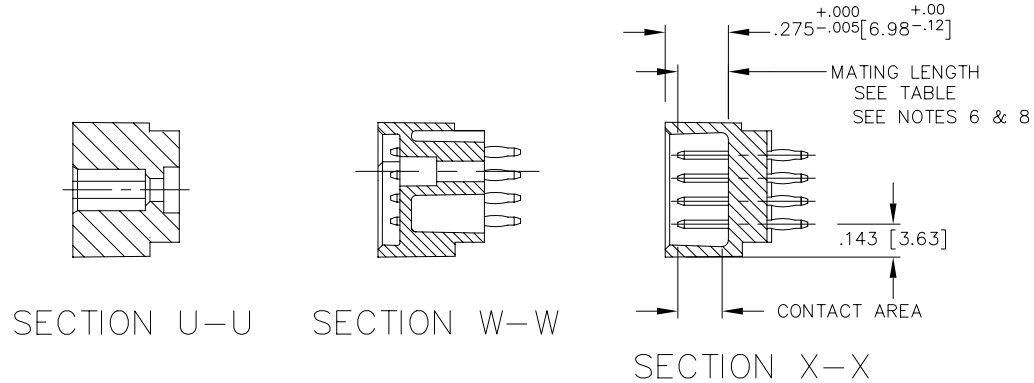
form: A3



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RECOMMENDED PCB LAYOUT  
(ALL HOLES LOCATED ON .100/2.54 GRID  
UNLESS OTHERWISE SPECIFIED)

|                       |                |    |      |                                       |                                                    |                       |                                                            |
|-----------------------|----------------|----|------|---------------------------------------|----------------------------------------------------|-----------------------|------------------------------------------------------------|
| mat'l. code<br>NOTE 3 |                |    |      | surface<br>ISO 1302 ✓                 | tolerance<br>ISO 406<br>ISO 1101                   | projection<br>INCH/MM | product family<br>HPC                                      |
| ltr                   | ecn            | no | dr   | tolerances unless otherwise specified |                                                    | scale 1:1<br>FCI      | title<br>4 ROW VERTICAL HEADER<br>W/PRESS FIT PINS, 1 G.P. |
| L                     |                |    |      | angles                                | linear                                             |                       |                                                            |
|                       |                |    |      | 0°±2°                                 | .XX ±.01/.3<br>.XXX ±.005/.13<br>.XXXX ±.0020/.051 |                       |                                                            |
|                       |                |    | dr   | D. SHEAFFER                           | 3/14/91                                            |                       | dwg no                                                     |
|                       |                |    | enr  | S. CLARK                              | 3/14/91                                            |                       | sheet 2 of 4 size                                          |
|                       |                |    | chr  | S. CLARK                              | 3/14/91                                            |                       | 50010 A3                                                   |
|                       |                |    | appd | S. CLARK                              | 3/14/91                                            |                       | type Product Customer Drawing                              |
| sheet index           | revision sheet |    |      |                                       |                                                    |                       |                                                            |

form: A3

**PDM: Rev:L**      **STATUS: Released**      Printed: May 13, 2011

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| PRODUCT NO.    | NO. OF POSITIONS<br>SEE NOTE 2 | TAIL LENGTH<br>±.015/0.38 | TERMINAL<br>PLATING | MATING LENGTH |
|----------------|--------------------------------|---------------------------|---------------------|---------------|
| 50010 -1YYA    | YYY                            | .177/4.50                 | 30μ"/0.76μ GOLD     | .220[5.59]    |
| 50010 -1YYC    | YYY                            | .533/13.54                | 30μ"/0.76μ GOLD     |               |
| 50010 -1YYD    | YYY                            | .733/18.62                | 30μ"/0.76μ GOLD     |               |
| 50010 -1YYG    | YYY                            | .250/6.35                 | 30μ"/0.76μ GOLD     |               |
| 50010 -1YYL    | YYY                            | .188/4.78                 | 30μ"/0.76μ GOLD     |               |
| 50010 -1YYP    | YYY                            | .470/11.94                | 30μ"/0.76μ GOLD     |               |
| 50010 -3YYA    | YYY                            | .177/4.50                 | 50μ"/1.27μ GOLD     |               |
| 50010 -3YYC    | YYY                            | .533/13.54                | 50μ"/1.27μ GOLD     |               |
| 50010 -3YYD    | YYY                            | .733/18.62                | 50μ"/1.27μ GOLD     |               |
| 50010 -3YYG    | YYY                            | .250/6.35                 | 50μ"/1.27μ GOLD     |               |
| 50010 -3YYL    | YYY                            | .188/4.78                 | 50μ"/1.27μ GOLD     |               |
| 50010 -3YYP    | YYY                            | .470/11.94                | 50μ"/1.27μ GOLD     |               |
| 50010 -5YYA    | YYY                            | .177/4.50                 | 30μ"/0.76μ GXT      |               |
| 50010 -5YYALF  | YYY                            | .177/4.50                 | 30μ"/0.76μ GXT      |               |
| 50010 -5YYC    | YYY                            | .533/13.54                | 30μ"/0.76μ GXT      |               |
| 50010 -5YYCLF  | YYY                            | .533/13.54                | 30μ"/0.76μ GXT      |               |
| 50010 -5YYD    | YYY                            | .733/18.62                | 30μ"/0.76μ GXT      |               |
| 50010 -5YYDLF  | YYY                            | .733/18.62                | 30μ"/0.76μ GXT      |               |
| 50010 -5YYG    | YYY                            | .250/6.35                 | 30μ"/0.76μ GXT      |               |
| 50010 -5YYGLF  | YYY                            | .250/6.35                 | 30μ"/0.76μ GXT      |               |
| 50010 -5YYL    | YYY                            | .188/4.78                 | 30μ"/0.76μ GXT      |               |
| 50010 -5YYLLF  | YYY                            | .188/4.78                 | 30μ"/0.76μ GXT      |               |
| 50010 -5YYP    | YYY                            | .470/11.94                | 30μ"/0.76μ GXT      |               |
| 50010 -5YYPLF  | YYY                            | .470/11.94                | 30μ"/0.76μ GXT      | .220[5.59]    |
| 50010 -XX009   | 368                            | SEE SHEET 3               | 30μ"/0.76μ GXT      | SEE SHEET 3   |
| 50010 -XX009LF | 368                            | SEE SHEET 3               | 30μ"/0.76μ GXT      | SEE SHEET 3   |

# NOTES:

## ①. PRODUCT NUMBERING CODE:

50010 - X YYY Z LF

LEAD FREE (OPTIONAL), SEE NOTE 9  
TAIL LENGTH, SEE TABLE  
NO. OF POSITIONS, SEE NOTE 2  
PLATING, SEE TABLE  
BASE NUMBER

## PRODUCT NUMBERING CODE FOR SELECT LOAD:

50010 - XXYYY LF

LEAD FREE (OPTIONAL) SEE NOTE 9  
SEQUENCE NUMBER  
ALWAYS 'XX'  
BASE NUMBER

②. THIS PRODUCT IS CONFIGURED IN SIZES OF 20 thru 122 COLUMNS IN INCREMENTS OF TWO.  
i.e.: 20,22,24,26,.....118,120,122.

③. HOUSING MATERIAL: GLASS AND MINERAL FILLED  
HIGH TEMP. THERMOPLASTIC. FLAME RETARDANT PER  
UL94V-0. COLOR: BLACK.  
PIN MATERIAL: PHOS BRONZE

④. LENGTH FORMULAS  
DIM "A" .100/2.54 x NO. OF COLUMNS +1.05/26.7  
DIM "B" .100/2.54 x NO. OF COLUMNS +.750/19.05  
DIM "C" .100/2.54 x NO. OF COLUMNS DIVIDED BY 2 -.100/2.54

⑤. Ø.0453/1.151 DRILLED HOLE PLATED WITH .0003/.007 MIN.  
SnPb OVER .001/.03 to .003/.08 Cu. PLATING TO ACHIEVE  
A Ø.040±.003/1.02±.08 HOLE.

⑥. TO ASSURE PROPER INSTALLATION: TOOLING, AS  
SPECIFIED IN INSTRUCTION MANUAL 155915-001 MUST  
BE USED. PIN MATING LENGTH WILL BE ±.002/.05  
AFTER INSTALLATION.

⑦. COMPANY NAME, PART NUMBER AND LOT CODE TO APPEAR ON  
THIS SURFACE PER BUS-12-108.

⑧. REFERENCE 50808 FOR F.M.L.B. AVAILABLE OPTIONS  
AND WORKSHEET.

⑨. THIS PRODUCT (WITH "LF" SUFFIX) MEETS EUROPEAN UNION  
DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

10. THIS HOUSING WILL WITHSTAND EXPOSURE TO 260° C PEAK TEMPERATURE  
FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

|                       |  |                |  |                                       |  |                                                    |  |                       |  |                                                            |  |  |  |
|-----------------------|--|----------------|--|---------------------------------------|--|----------------------------------------------------|--|-----------------------|--|------------------------------------------------------------|--|--|--|
| mat'l. code<br>NOTE 3 |  |                |  | surface<br>ISO 1302 ✓                 |  | tolerance<br>ISO 406<br>ISO 1101                   |  | projection<br>INCH/MM |  | product family<br>HPC                                      |  |  |  |
| ltr ecn no dr date    |  |                |  | tolerances unless otherwise specified |  |                                                    |  |                       |  | title<br>4 ROW VERTICAL HEADER<br>W/PRESS FIT PINS, 1 G.P. |  |  |  |
| L                     |  |                |  | angles linear                         |  | .XX ±.01/.3<br>.XXX ±.005/.13<br>.XXXX ±.0020/.051 |  | scale 1:1             |  | dwg no<br>50010                                            |  |  |  |
|                       |  |                |  | dr                                    |  | D. SHEAFFER 3/14/91                                |  |                       |  | sheet 4 of 4 size<br>A3                                    |  |  |  |
|                       |  |                |  | enrg                                  |  | S. CLARK 3/14/91                                   |  |                       |  | type Product Customer Drawing                              |  |  |  |
|                       |  |                |  | chr                                   |  | S. CLARK 3/14/91                                   |  |                       |  |                                                            |  |  |  |
|                       |  |                |  | appd                                  |  | S. CLARK 3/14/91                                   |  |                       |  |                                                            |  |  |  |
| sheet index           |  | revision sheet |  |                                       |  |                                                    |  |                       |  |                                                            |  |  |  |