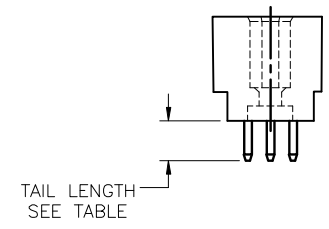
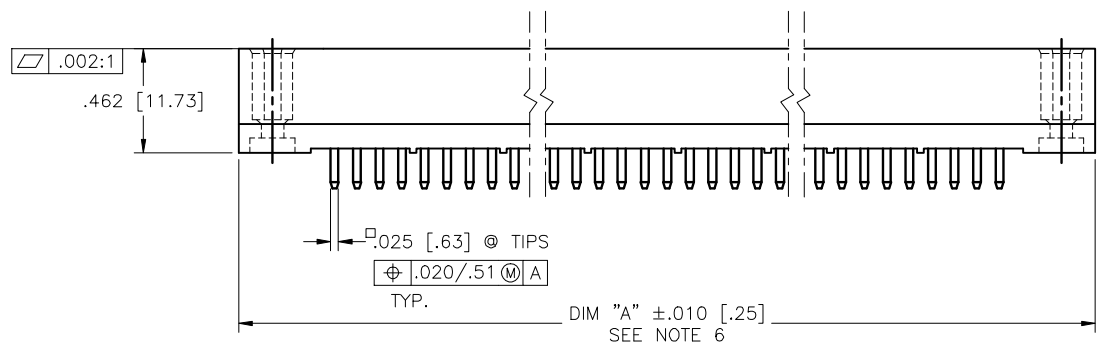
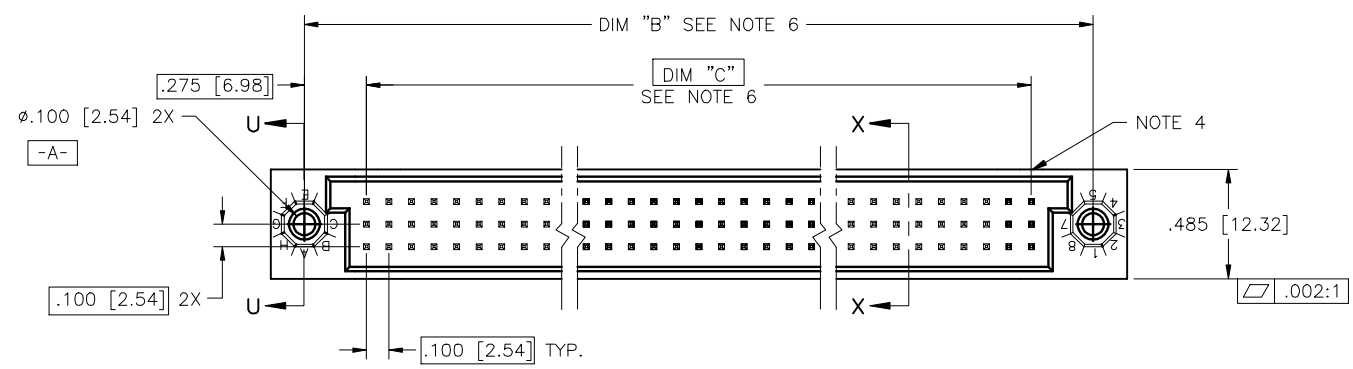


PRODUCT NUMBER  
SEE TABLE

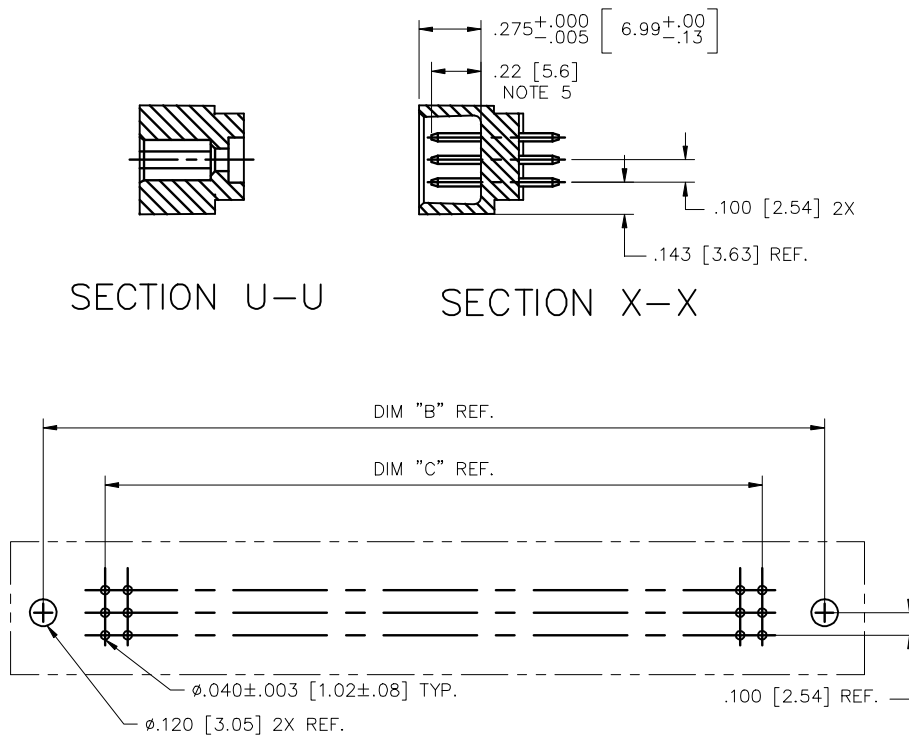


|             |            |                     |                                  |                                       |                               |
|-------------|------------|---------------------|----------------------------------|---------------------------------------|-------------------------------|
| mat'l. code | SEE NOTE 3 | Surface<br>ISO 1302 | tolerance<br>ISO 406<br>ISO 1101 | projection                            | product family                |
| ltr         | ecn no     | dr                  | date                             | tolerances unless otherwise specified | HPC                           |
| H           | V40286     | PDP                 | 1/20/94                          | angles                                | title                         |
| J           | V90017     | HTB                 | 1/7/99                           | linear                                | 3 ROW VERTICAL HEADER         |
| K           | V00272     | JWS                 | 2/1/00                           | linear                                | W/SOLDER TAIL PINS, 0 G.P.    |
| L           | V05-0753   | DAI                 | 10/03/05                         | linear                                | scale 1:1                     |
| M           | V05-1039   | DAI                 | 11/11/05                         | engr                                  | FCI                           |
| N           | M06-0283   | MHT                 | 7/27/06                          | chr                                   | dwg no                        |
| P           | M09-0029   | MHT                 | 2/20/09                          | appd                                  | 50012                         |
| revision    | P          | P                   | P                                | P                                     | sheet 1 of 4                  |
| index       | sheet      | 1                   | 2                                | 3                                     | 4                             |
|             |            |                     |                                  |                                       | size A3                       |
|             |            |                     |                                  |                                       | type Product Customer Drawing |

PRODUCT NUMBER  
SEE TABLE

SECTION U-U

SECTION X-X



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

|             |          |           |            |                            |
|-------------|----------|-----------|------------|----------------------------|
| mat'l. code | surface  | tolerance | projection | product family             |
| SEE NOTE 3  | ISO 1902 | ISO 406   | ISO 1101   | HPC                        |
| ltr         | ecn no   | dr        | date       | title                      |
| P           |          |           |            | 3 ROW VERTICAL HEADER      |
|             |          |           |            | W/SOLDER TAIL PINS, 0 G.P. |
|             |          |           |            | dwg no                     |
|             |          |           |            | sheet 2 of 4               |
|             |          |           |            | size                       |
|             |          |           |            | A3                         |
|             |          |           |            | type                       |
|             |          |           |            | Product Customer Drawing   |
| sheet       | revision |           |            |                            |
| index       | sheet    |           |            |                            |

PRODUCT NUMBER  
SEE TABLE

# 50012-XX010 AND 50012-XX010LF ONLY

|   | 1 | 5 | 10 | 15 | 20 | 25 | 30 |
|---|---|---|----|----|----|----|----|
| C | B | B |    |    |    |    |    |
| B | B | B |    |    |    |    |    |
| A | B | B |    |    |    |    |    |

PIN  
1

| 31 | 35 | 40 | 45 | 50 | 55  |
|----|----|----|----|----|-----|
|    |    |    |    |    | B B |
|    |    |    |    |    | B B |
|    |    |    |    |    | B B |

CUSTOMER NOTE: END GUIDE PINS ARE SUGGESTED IN YOUR APPLICATION TO  
PREVENT STUBBING OF THE .260 MATING LENGTH SIGNAL PINS.

## NOTES FOR 50012-XX010 AND 50012-XX010LF ONLY:

- ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.
- SIGNAL DATA FOR 50012-XX010 AND 50012-XX010LF:  
SIZE 3 X 55  
TOTAL NO. OF POSITIONS - 165  
NO. OF POSITIONS LOADED - 165

| ITEM KEY | QTY. | MATING LENGTH | TAIL LENGTH |
|----------|------|---------------|-------------|
| A        | 153  | .180 / 4.57   | .177 / 4.50 |
| B        | 12   | .260 / 6.60   | .177 / 4.50 |

|                           |                |                                                         |                                  |                                                              |                       |
|---------------------------|----------------|---------------------------------------------------------|----------------------------------|--------------------------------------------------------------|-----------------------|
| mat'l. code<br>SEE NOTE 3 |                | surface<br>ISO 1502 <input checked="" type="checkbox"/> | tolerance<br>ISO 406<br>ISO 1101 | projection<br>                                               | product family<br>HPC |
| ltr                       | ec'n no        | dr                                                      | date                             | title<br>3 ROW VERTICAL HEADER<br>W/SOLDER TAIL PINS, 0 G.P. |                       |
| P                         |                |                                                         |                                  | scale 1:1                                                    |                       |
|                           |                |                                                         |                                  | sheet 3 of 4 size A3                                         |                       |
|                           |                |                                                         |                                  | type Product Customer Drawing                                |                       |
| sheet index               | revision sheet |                                                         |                                  |                                                              |                       |

| PRODUCT NUMBER | NUMBER OF POSITIONS<br>SEE NOTE 2 | TAIL LENGTH<br>±.015/0.38 | TERMINAL PLATING<br>NOTE 9 |
|----------------|-----------------------------------|---------------------------|----------------------------|
| 50012-1YYA     | YYY                               | .177/4.50                 | 30μ"/.76μ GOLD             |
| 50012-1YYY     | YYY                               | .533/13.54                | 30μ"/.76μ GOLD             |
| 50012-1YYD     | YYY                               | .733/18.62                | 30μ"/.76μ GOLD             |
| 50012-1YYG     | YYY                               | .250/6.35                 | 30μ"/.76μ GOLD             |
| 50012-1YYJ     | YYY                               | .120/3.05                 | 30μ"/.76μ GOLD             |
| 50012-3YYA     | YYY                               | .177/4.50                 | 50μ"/1.27μ GOLD            |
| 50012-3YYC     | YYY                               | .533/13.54                | 50μ"/1.27μ GOLD            |
| 50012-3YYD     | YYY                               | .733/18.62                | 50μ"/1.27μ GOLD            |
| 50012-3YYG     | YYY                               | .250/6.35                 | 50μ"/1.27μ GOLD            |
| 50012-3YYY     | YYY                               | .120/3.05                 | 50μ"/1.27μ GOLD            |
| 50012-5YYA     | YYY                               | .177/4.50                 | 30μ"/.76μ GXT              |
| 50012-5YYALF   | YYY                               | .177/4.50                 | 30μ"/.76μ GXT              |
| 50012-5YYB     | YYY                               | .190/4.82                 | 30μ"/.76μ GXT              |
| 50012-5YYBLF   | YYY                               | .190/4.82                 | 30μ"/.76μ GXT              |
| 50012-5YYC     | YYY                               | .533/13.54                | 30μ"/.76μ GXT              |
| 50012-5YYCLF   | YYY                               | .533/13.54                | 30μ"/.76μ GXT              |
| 50012-5YYD     | YYY                               | .733/18.62                | 30μ"/.76μ GXT              |
| 50012-5YYDLF   | YYY                               | .733/18.62                | 30μ"/.76μ GXT              |
| 50012-5YYG     | YYY                               | .250/6.35                 | 30μ"/.76μ GXT              |
| 50012-5YYGLF   | YYY                               | .250/6.35                 | 30μ"/.76μ GXT              |
| 50012-5YYJ     | YYY                               | .120/3.05                 | 30μ"/.76μ GXT              |
| 50012-5YYJLF   | YYY                               | .120/3.05                 | 30μ"/.76μ GXT              |
| 50012-XX010    | 165                               | SEE SHEET 3               | 30μ"/.76μ Au               |
| 50012-XX010LF  | 165                               | SEE SHEET 3               | 30μ"/.76μ GXT              |

# NOTES:

- ① PRODUCT NUMBERING CODE:  
50012 - X YYY Z LF
- LEAD FREE (OPTIONAL)  
TAIL LENGTH SEE TABLE  
NO. OF POSITIONS SEE NOTE 2  
PLATING SEE TABLE  
BASE NUMBER

PRODUCT NUMBERING CODE FOR  
SELECT LOAD/FMLB PART NUMBERS:  
50012 - XYYYY LF

- LEAD FREE (OPTIONAL)  
SEQUENCE NUMBER  
ALWAYS 'XX'  
BASE NUMBER

- ② THIS PRODUCT IS CONFIGURED IN SIZES OF 6 thru 80  
COLUMNS IN INCREMENTS OF ONE.  
i.e.: 6,7,8,9,.....78,79,80.
- ③ HOUSING MATERIAL: GLASS AND MINERAL FILLED  
HIGH TEMP. THERMOPLASTIC. FLAME RETARDANT PER  
UL94V-0. COLOR: BLACK.  
PIN MATERIAL: PHOS BRONZE

- ④ COMPANY NAME, PART NUMBER AND LOT CODE TO APPEAR ON  
THIS SURFACE PER BUS-12-108.
- ⑤ REFERENCE 50804 FOR FIRST MATE LAST BREAK AVAILABLE  
OPTIONS AND FOR SELECTIVELY LOADED HEADER WORKSHEET.
- ⑥ LENGTH FORMULAS:  
DIM "A" .100/2.54 x NO. OF COLUMNS +.75/19.1  
DIM "B" .100/2.54 x NO. OF COLUMNS +.450/11.43  
DIM "C" .100/2.54 x NO. OF COLUMNS -.100/2.54
7. THIS PRODUCT (WITH "LF" SUFFIX) MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY  
REGULATIONS AS DESCRIBED IN GS-22-008.
8. THIS HOUSING WILL WITHSTAND EXPOSURE TO 260° C PEAK TEMPERATURE FOR  
10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- ⑨ PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURE'S OPTION

|                           |          |    |      |                                       |                                  |                                                                                                               |                                                                     |
|---------------------------|----------|----|------|---------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| mat'l. code<br>SEE NOTE 3 |          |    |      | surface<br>ISO 1302                   | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM                                                                                         | product family<br>HPC                                               |
| ltr                       | ec'n no  | dr | date | tolerances unless otherwise specified |                                  | <br>INCH/MM<br>scale 1:1 | title<br><b>3 ROW VERTICAL HEADER</b><br>W/SOLDER TAIL PINS, 0 G.P. |
| P                         |          |    |      | angles                                | linear                           |                                                                                                               |                                                                     |
|                           |          |    |      |                                       | .XX±.01/XX±.03                   |                                                                                                               |                                                                     |
|                           |          |    |      |                                       | .XXX±.005/XXX±0.13               |                                                                                                               |                                                                     |
|                           |          |    |      | 0'±2'                                 | .XXX±.0020/XXX±0.051             |                                                                                                               |                                                                     |
|                           |          |    |      | dr                                    | D.SHEAFFER 3/14/91               |                          | dwg no<br><b>50012</b><br>sheet 4 of 4 size<br><b>A3</b>            |
|                           |          |    |      | engr                                  | S.CLARK 3/14/91                  |                                                                                                               |                                                                     |
|                           |          |    |      | chr                                   | S.CLARK 3/14/91                  |                                                                                                               |                                                                     |
|                           |          |    |      | appd                                  | S.CLARK 3/14/91                  |                                                                                                               |                                                                     |
| sheet                     | revision |    |      |                                       |                                  | type Product Customer Drawing                                                                                 |                                                                     |
| index                     | sheet    |    |      |                                       |                                  |                                                                                                               |                                                                     |