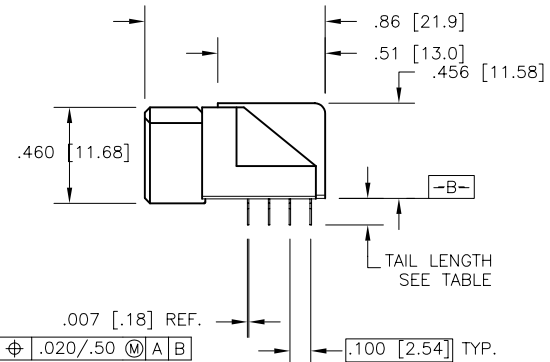
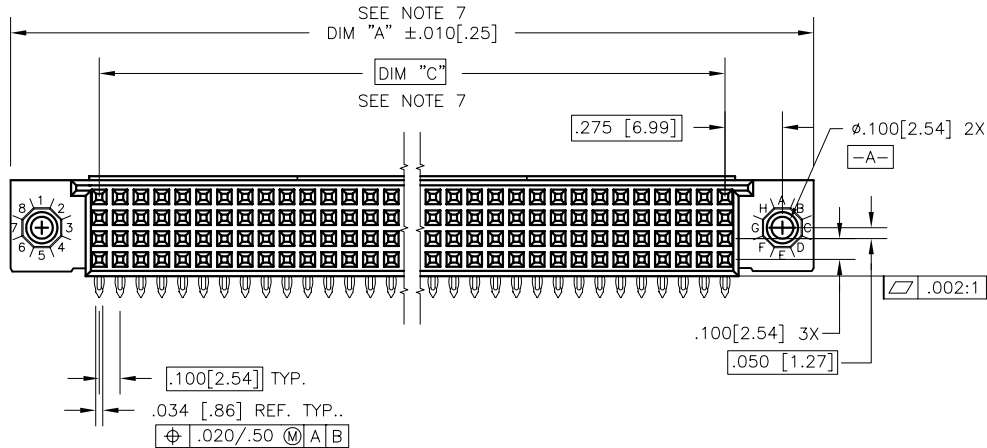
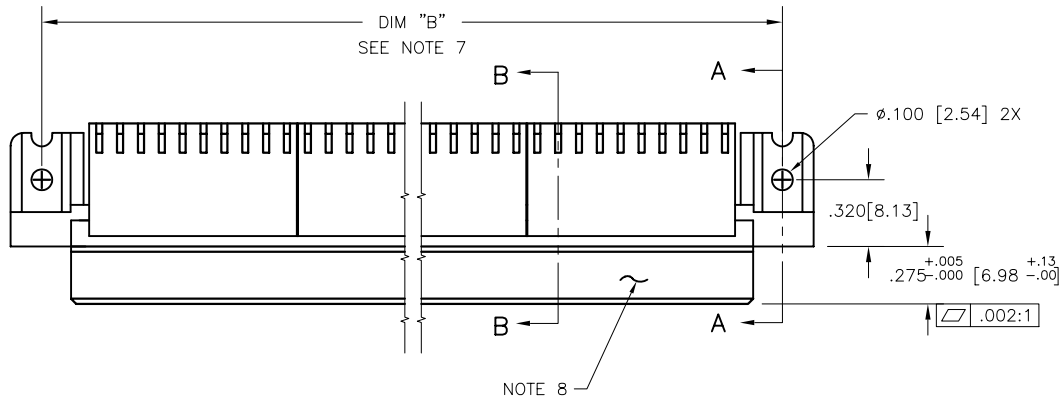




FCIconnect.com

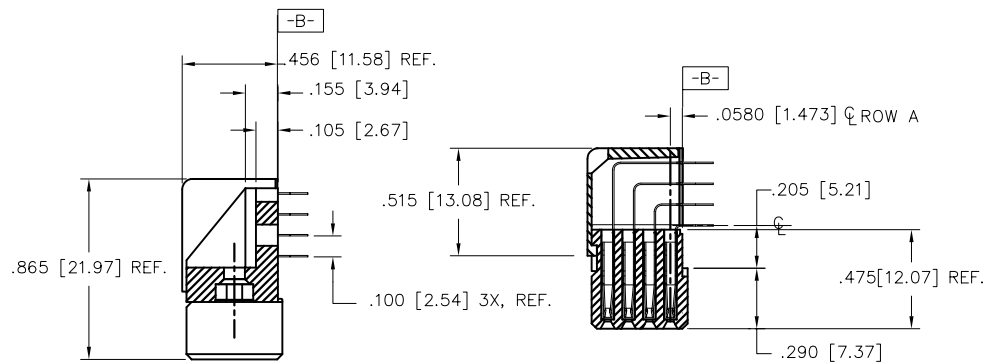
Copyright FCI

PRODUCT NUMBER  
SEE TABLE



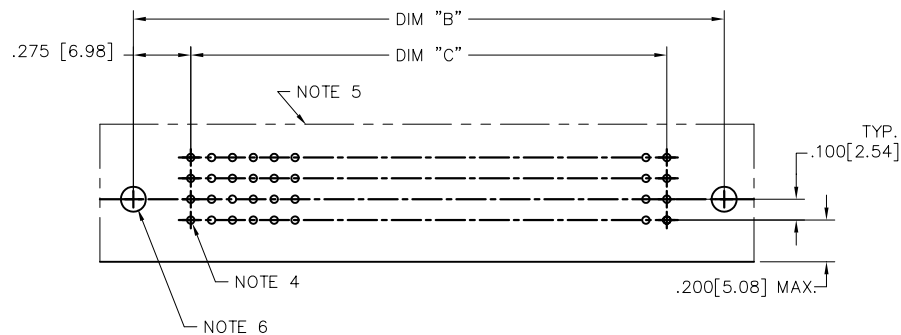
|                       |          |     |          |                                       |                                  |                       |                                            |
|-----------------------|----------|-----|----------|---------------------------------------|----------------------------------|-----------------------|--------------------------------------------|
| 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                   | ecm no   | dr  | date     | tolerances unless otherwise specified |                                  | scale 1:1             | title<br>4 ROW R/A RECEPTACLE<br>PRESS FIT |
| P                     | V10824   | JRW | 2/6/01   | angles                                | linear                           |                       | dwg no<br>50642                            |
| R                     | V05-0460 | DAI | 7/13/05  |                                       |                                  |                       | sheet 1 of 7 size<br>A3                    |
| S                     | V05-1003 | DAI | 11/1/05  | 0'±2'                                 |                                  |                       | type<br>Product Customer Drawing           |
| T                     | V05-1041 | HTB | 11/14/05 | dr                                    | D.INGRAM                         | 7/13/05               |                                            |
| U                     | M06-0255 | MHT | 7/06/06  | enrg                                  | D.HORCHLER                       | 7/13/05               |                                            |
| V                     | M06-0388 | MHT | 10/04/06 | chr                                   | T.BREWBAKER                      | 7/13/05               |                                            |
| W                     | M08-0149 | MHT | 5/27/08  | appd                                  | D.HORCHLER                       | 7/13/05               |                                            |
| sheet                 | revision | W   | W        | W                                     | W                                | W                     |                                            |
| index                 | sheet    | 1   | 2        | 3                                     | 4                                | 5                     | 6                                          |

PRODUCT NUMBER  
SEE TABLE



SECTION A-A

SECTION B-B

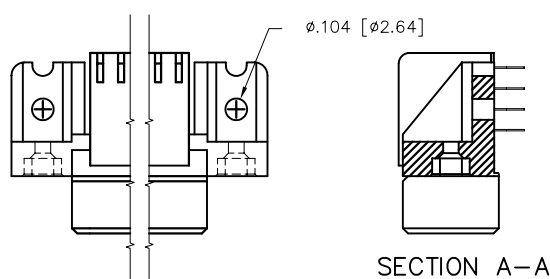


RECOMMENDED PCB LAYOUT

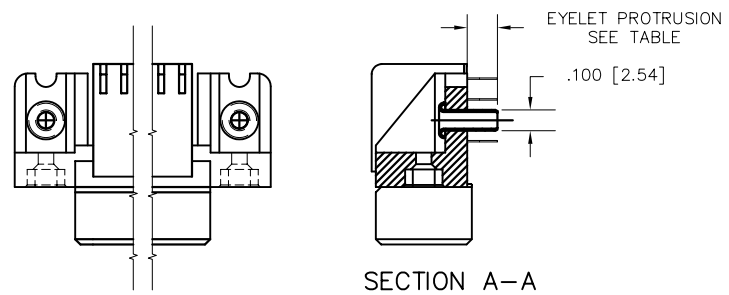
(ALL HOLES LOCATED ON .100[2.54]  
GRID UNLESS OTHERWISE SHOWN)

|                       |                   |    |      |                                       |                                                                             |                       |                                            |
|-----------------------|-------------------|----|------|---------------------------------------|-----------------------------------------------------------------------------|-----------------------|--------------------------------------------|
| 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                   | ecm no            | dr | date | tolerances unless otherwise specified |                                                                             | scale 1:1             | title<br>4 ROW R/A RECEPTACLE<br>PRESS FIT |
| W                     |                   |    |      | angles                                | linear                                                                      |                       | dwg no<br>50642<br>sheet 2 of 7 size<br>A3 |
|                       |                   |    |      | 0° ± 2°                               | XXX ± .01 / XX ± .03<br>XXX ± .005 / XX ± .013<br>XXXX ± .0020 / XXX ± .005 |                       |                                            |
|                       |                   |    |      | dr                                    | D. INGRAM                                                                   | 7/13/05               | type<br>Product Customer Drawing           |
|                       |                   |    |      | engr                                  | D. HORCHLER                                                                 | 7/13/05               |                                            |
|                       |                   |    |      | chr                                   | T. BREWBAKER                                                                | 7/13/05               |                                            |
|                       |                   |    |      | appd                                  | D. HORCHLER                                                                 | 7/13/05               |                                            |
| sheet<br>index        | revision<br>sheet |    |      |                                       |                                                                             |                       |                                            |

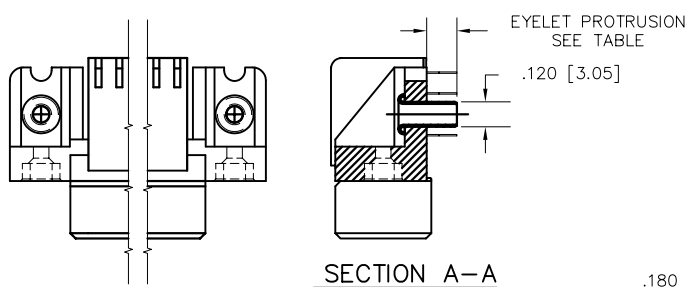
PRODUCT NUMBER  
SEE TABLE



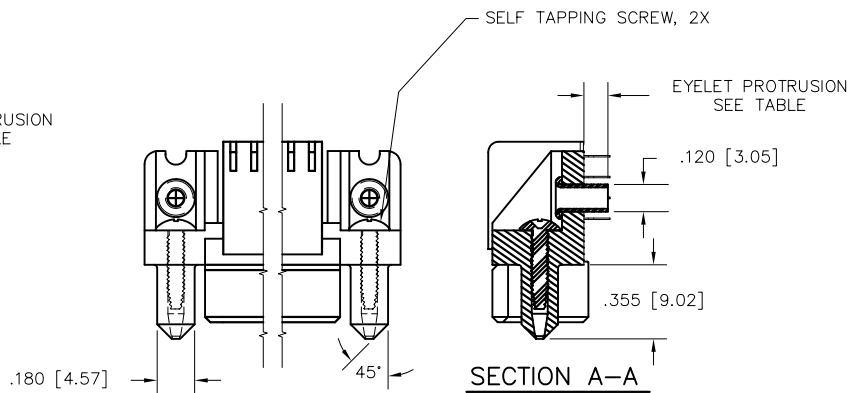
SPECIAL FEATURE OPTION A  
SEE NOTE 6



SPECIAL FEATURE OPTION B  
SEE NOTE 6



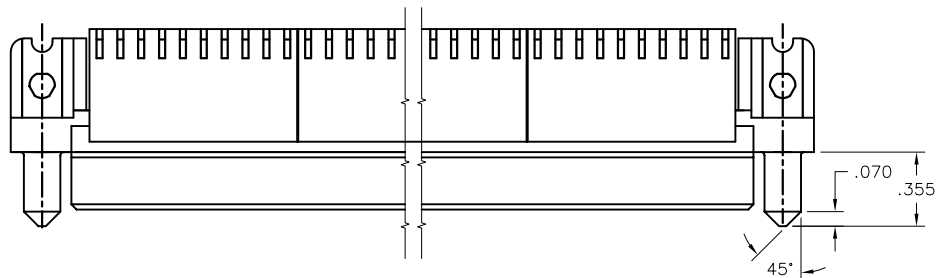
SPECIAL FEATURE OPTION C  
SEE NOTE 6



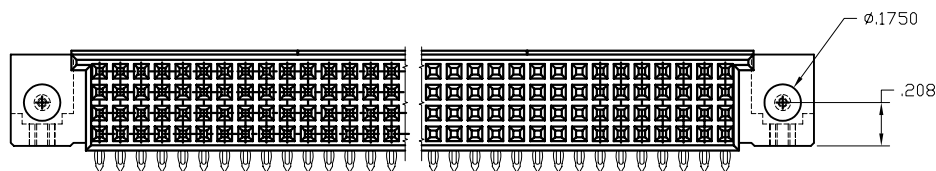
SPECIAL FEATURE OPTION D  
SEE NOTE 6

|                       |          |    |      |                                       |                                  |                                    |                                   |
|-----------------------|----------|----|------|---------------------------------------|----------------------------------|------------------------------------|-----------------------------------|
| mat'l. code<br>NOTE 3 |          |    |      | surface<br>ISO 1302                   | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM<br>scale 1:1 | product family<br>HPC             |
| ltr                   | ecm no   | dr | date | tolerances unless otherwise specified |                                  |                                    | title                             |
| W                     |          |    |      | angles                                | linear                           |                                    | 4 ROW R/A RECEPTACLE<br>PRESS FIT |
|                       |          |    |      | 0°±2°                                 |                                  |                                    |                                   |
|                       |          |    |      | dr                                    | D.INGRAM                         | 7/13/05                            | dwg no                            |
|                       |          |    |      | enr                                   | D.HORCHLER                       | 7/13/05                            | sheet 3 of 7                      |
|                       |          |    |      | chr                                   | T.BREWBAKER                      | 7/13/05                            | size                              |
|                       |          |    |      | appd                                  | D.HORCHLER                       | 7/13/05                            | A3                                |
| sheet                 | revision |    |      |                                       |                                  |                                    | type                              |
| index                 | sheet    |    |      |                                       |                                  |                                    | Product Customer Drawing          |

PRODUCT NUMBER  
SEE TABLE



SPECIAL FEATURE OPTION E  
SEE NOTE 6



|                       |                   |    |      |                                       |                                  |                       |                                            |
|-----------------------|-------------------|----|------|---------------------------------------|----------------------------------|-----------------------|--------------------------------------------|
| 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                   | ecm no            | dr | date | tolerances unless otherwise specified |                                  | scale 1:1             | title<br>4 ROW R/A RECEPTACLE<br>PRESS FIT |
| W                     |                   |    |      | angles                                | linear                           |                       |                                            |
|                       |                   |    |      | 0° ± 2°                               | linear                           |                       |                                            |
|                       |                   |    |      | dr                                    | D. INGRAM                        | 7/13/05               | dwg no<br>50642                            |
|                       |                   |    |      | enr                                   | D. HORCHLER                      | 7/13/05               |                                            |
|                       |                   |    |      | chr                                   | T. BREWBAKER                     | 7/13/05               |                                            |
|                       |                   |    |      | appd                                  | D. HORCHLER                      | 7/13/05               | type<br>Product Customer Drawing           |
| sheet<br>index        | revision<br>sheet |    |      |                                       |                                  |                       |                                            |

|                |
|----------------|
| PRODUCT NUMBER |
| 50642-XX004    |
| 50642-XX004LF  |

SELECT LOAD ( 50642-XX004 AND 50642-XX004LF ONLY)

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| 60 | 55 | 50 | 45 | 40 | 35 | 31 |
| A  | A  | A  | A  | A  | A  | A  |
| B  | B  | B  | B  | B  | B  | B  |
| C  | C  | C  | C  | C  | C  | C  |

\*

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

\*

TERM.

1

SPECIAL NOTES FOR -XX004 AND -XX004LF ONLY:

- ALL POSITIONS ARE LOADED, EXCEPT OMTS AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL TERM. 1, AS VIEWED FROM THE MATING FACE.
- BECAUSE OF THE SELECT LOAD TERMINAL POSITIONS, ONLY 2 PRESS BLOCKS NEED TO BE INSTALLED-ONE PLACED STARTING IN COL. 25(\*) AND ENDING IN COL. 34 THE OTHER PLACED STARTING IN COL. 35(\*) AND ENDING IN COL.44.

- SIGNAL DATA FOR 50642-XX004 AND -XX004LF:

SIZE 4 x 60

TOTAL NO. OF POSITIONS - 240

NO. OF POSITIONS LOADED - 032

| ITEM KEY | QTY. |
|----------|------|
| A        | 16   |
| B        | 8    |
| C        | 8    |
| BLANK    | 208  |

|             |          |         |          |                                       |             |            |                |                          |
|-------------|----------|---------|----------|---------------------------------------|-------------|------------|----------------|--------------------------|
| mat'l. code | NOTE 3   | surface | ISO 1302 | tolerance                             | ISO 406     | projection | product family | HPC                      |
| ltr         | ecm no   | dr      | date     | tolerances unless otherwise specified |             |            | title          | 4 ROW R/A RECEPTACLE     |
| W           |          |         |          | angles                                | linear      | INCH/MM    | scale          | PRESS FIT                |
|             |          |         |          | 0° ± 2°                               |             | scale      | 1:1            |                          |
|             |          |         |          | dr                                    | D.INGRAM    | 7/13/05    | dwg no         | 50642                    |
|             |          |         |          | enrg                                  | D.HORCHLER  | 7/13/05    | sheet          | 5 of 7                   |
|             |          |         |          | chr                                   | T.BREWBAKER | 7/13/05    | size           | A3                       |
|             |          |         |          | appd                                  | D.HORCHLER  | 7/13/05    | type           | Product Customer Drawing |
| sheet       | revision |         |          |                                       |             |            |                |                          |
| index       | sheet    |         |          |                                       |             |            |                |                          |

| PRODUCT NUMBER | NUMBER OF POSITIONS<br>NOTE 2 | TAIL LENGTH        | SPECIAL FEATURES<br>SEE NOTE 6 | SOLDER TAIL<br>PLATING | CONTACT PLATING | EYELET<br>PROTRUSION | GUIDE<br>PINS |
|----------------|-------------------------------|--------------------|--------------------------------|------------------------|-----------------|----------------------|---------------|
| 50642-1YYYE    | YYY                           | .125±.010/3.18±.25 | —                              | TIN LEAD               | 30u"/.76u Au    | N/A                  | NONE          |
| 50642-1YYYELF  | YYY                           | .125±.010/3.18±.25 | —                              | TIN                    | 30u"/.76u GXT   | N/A                  | NONE          |
| 50642-1YYYEA   | YYY                           | .125±.010/3.18±.25 | "A"                            | TIN LEAD               | 30u"/.76u Au    | N/A                  | NONE          |
| 50642-1YYYEALF | YYY                           | .125±.010/3.18±.25 | "A"                            | TIN                    | 30u"/.76u GXT   | N/A                  | NONE          |
| 50642-1YYYEB   | YYY                           | .125±.010/3.18±.25 | "B"                            | TIN LEAD               | 30u"/.76u Au    | .145/3.68            | NONE          |
| 50642-1YYYEBLF | YYY                           | .125±.010/3.18±.25 | "B"                            | TIN                    | 30u"/.76u GXT   | .145/3.68            | NONE          |
| 50642-1YYYEC   | YYY                           | .125±.010/3.18±.25 | "C"                            | TIN LEAD               | 30u"/.76u Au    | .115/2.92            | NONE          |
| 50642-1YYYECLF | YYY                           | .125±.010/3.18±.25 | "C"                            | TIN                    | 30u"/.76u GXT   | .115/2.92            | NONE          |
| 50642-1YYYED   | YYY                           | .125±.010/3.18±.25 | "D"                            | TIN LEAD               | 30u"/.76u Au    | .115/2.92            | 2             |
| 50642-1YYYEDLF | YYY                           | .125±.010/3.18±.25 | "D"                            | TIN                    | 30u"/.76u GXT   | .115/2.92            | 2             |
| 50642-1YYYEE   | YYY                           | .125±.010/3.18±.25 | "E"                            | TIN LEAD               | 30u"/.76u Au    | N/A                  | 2             |
| 50642-1YYYEELF | YYY                           | .125±.010/3.18±.25 | "E"                            | TIN                    | 30u"/.76u GXT   | N/A                  | 2             |
| 50642-1YYYF    | YYY                           | .145±.010/3.68±.25 | —                              | TIN LEAD               | 30u"/.76u Au    | N/A                  | NONE          |
| 50642-1YYYFLF  | YYY                           | .145±.010/3.68±.25 | —                              | TIN                    | 30u"/.76u GXT   | N/A                  | NONE          |
| 50642-1YYYFA   | YYY                           | .145±.010/3.68±.25 | "A"                            | TIN LEAD               | 30u"/.76u Au    | N/A                  | NONE          |
| 50642-1YYYFALF | YYY                           | .145±.010/3.68±.25 | "A"                            | TIN                    | 30u"/.76u GXT   | N/A                  | NONE          |
| 50642-1YYYFC   | YYY                           | .145±.010/3.68±.25 | "C"                            | TIN LEAD               | 30u"/.76u Au    | .145/3.68            | NONE          |
| 50642-1YYYFCLF | YYY                           | .145±.010/3.68±.25 | "C"                            | TIN                    | 30u"/.76u GXT   | .145/3.68            | NONE          |
| 50642-1YYYFD   | YYY                           | .145±.010/3.68±.25 | "D"                            | TIN LEAD               | 30u"/.76u Au    | .145/3.68            | 2             |
| 50642-1YYYFDLF | YYY                           | .145±.010/3.68±.25 | "D"                            | TIN                    | 30u"/.76u GXT   | .145/3.68            | 2             |
| 50642-1YYYFE   | YYY                           | .145±.010/3.68±.25 | "E"                            | TIN LEAD               | 30u"/.76u Au    | N/A                  | 2             |
| 50642-1YYYFELF | YYY                           | .145±.010/3.68±.25 | "E"                            | TIN                    | 30u"/.76u GXT   | N/A                  | 2             |
| 50642-XX004    | 240                           | .125±.010/3.18±.25 | SEE SHEET 5                    | TIN LEAD               | 30u"/.76u Au    | N/A                  | NONE          |
| 50642-XX004LF  | 240                           | .125±.010/3.18±.25 | SEE SHEET 5                    | TIN                    | 30u"/.76u GXT   | N/A                  | NONE          |

|                       |                |    |      |                                                         |             |                                  |  |                |  |                                            |  |
|-----------------------|----------------|----|------|---------------------------------------------------------|-------------|----------------------------------|--|----------------|--|--------------------------------------------|--|
| mat'l. code<br>NOTE 3 |                |    |      | surface<br>ISO 1302 <input checked="" type="checkbox"/> |             | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>HPC                      |  |
| ltr                   | ec'n no        | dr | date | tolerances unless otherwise specified                   |             |                                  |  |                |  |                                            |  |
| W                     |                |    |      | angles                                                  | linear      | XX±.01/XX±.03                    |  | INCH/MM        |  | title<br>4 ROW R/A RECEPTACLE<br>PRESS FIT |  |
|                       |                |    |      | 0°±2°                                                   |             | XXX±.005/XX±.013                 |  | scale 1:1      |  | dwg no<br>50642                            |  |
|                       |                |    |      | dr                                                      | D.INGRAM    | 7/13/05                          |  |                |  | sheet 6 of 7 size<br>A3                    |  |
|                       |                |    |      | enr                                                     | D.HORCHLER  | 7/13/05                          |  |                |  |                                            |  |
|                       |                |    |      | chr                                                     | T.BREWBAKER | 7/13/05                          |  |                |  |                                            |  |
|                       |                |    |      | appd                                                    | D.HORCHLER  | 7/13/05                          |  |                |  | type Product Customer Drawing              |  |
| sheet index           | revision sheet |    |      |                                                         |             |                                  |  |                |  |                                            |  |

PRODUCT NUMBER  
SEE TABLE

## NOTES:

## ①. PRODUCT NUMBERING CODE

50642- X YYY Z S LF  
LEAD FREE (OPTIONAL)  
SPECIAL FEATURES SEE TABLE  
TAIL LENGTH SEE TABLE  
NO. OF POSITIONS SEE NOTE 2  
PLATING SEE TABLE  
BASE NUMBER

## PRODUCT NUMBERING CODE FOR SELECT LOAD

50642- XX YYY 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, .....79, 80.
- ③. MATERIAL: PRESS BLOCK – HIGH TEMP THERMOPLASTIC;  
HOUSING—GLASS AND MINERAL FILLED HIGH TEMP TURE THERMOPLASTIC, FLAME RETARDANT PER UL94V-0. COLOR—BLACK  
CONTACT—BeCu
- ④. DRILLED HOLE DIA OF .0453±.001 INCH FINISHED TO .0400±.0030 INCH BY PLATING SnPb OR OTHER PLATING 0.0003 TO 0.0006 INCHES THICK WITH A COPPER UNDERPLATE AS NEEDED.
- ⑤. INFORMATION DOCUMENT: FOR PCB STAY- AWAY ZONE, SEE TA-0954.
- ⑥. SPECIAL FEATURES (SEE PRODUCT NUMBER TABLE, AND DETIALS ON SHEET 3)  
- IF NO SPECIAL FEATURE CODE IS SELECTED, PCB MOUNTING HOLE DIMENSION TO BE  $\phi.120\pm.003[3.05\pm0.07]$   
"A" PCB MOUNTING HOLE DIMENSION TO BE  $\phi.100\pm.003[2.54\pm0.07]$   
"B" INCLUDES PRE-INSTALLED EYELETS FOR PCB ATTACHMENT IN A  $\phi.100\pm.003[2.54\pm0.07]$  MOUNTING HOLE. (E TAIL ONLY)  
"C" INCLUDES PRE-INSTALLED EYELETS FOR PCB ATTACHMENT IN A  $\phi.120\pm.003[3.05\pm0.07]$  MOUNTING HOLE.  
"D" INCLUDES PRE-INSTALLED EYELETS WITH MOLDED GUIDE PINS FOR PCB ATTACHMENT IN A  $\phi.120\pm.003[3.05\pm0.07]$  MOUNTING HOLE.  
"E" INCLUDES MOLDED GUIDE PINS WITH TRI-HOLE SHAPED MOUNTING HOLES. (EYELETS NOT INSTALLED)
- ⑦. LENGTH CALCULATIONS:  
DIMENSION "A" CALCULATION =  $.100 [2.54] \times \text{NO. OF COLUMNS} + .75 [19.1]$   
DIMENSION "B" CALCULATION =  $.100 [2.54] \times \text{NO. OF COLUMNS} + .450 [11.43]$   
DIMENSION "C" CALCULATION =  $.100 [2.54] \times \text{NO. OF COLUMNS} - .100 [2.54]$
- ⑧. MANUFACTURE'S LOGO, PN, AND LOT CODE TO APPEAR ON THIS SURFACE.
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 TEMP TURE FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
11. ALL POSITIONS ARE LOADED EXCEPT FOR -XXXXY ASSEMBLIES WHICH HAVE SELECTIVE LOADING.

|                       |        |                   |      |                                                         |             |                                  |  |                                                                                                     |  |                                            |  |
|-----------------------|--------|-------------------|------|---------------------------------------------------------|-------------|----------------------------------|--|-----------------------------------------------------------------------------------------------------|--|--------------------------------------------|--|
| mat'l. code<br>NOTE 3 |        |                   |      | surface<br>ISO 1302 <input checked="" type="checkbox"/> |             | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>HPC                      |  |
| ltr                   | ecr no | dr                | date | tolerances unless otherwise specified                   |             |                                  |  |                                                                                                     |  |                                            |  |
| W                     |        |                   |      | angles                                                  | linear      | $.00\pm.01/.00\pm.03$            |  | INCH/MM                                                                                             |  | title<br>4 ROW R/A RECEPTACLE<br>PRESS FIT |  |
|                       |        |                   |      |                                                         |             | $.00\pm.005/.00\pm.013$          |  |                                                                                                     |  |                                            |  |
|                       |        |                   |      |                                                         |             | $.0000\pm.0020/.0000\pm.0051$    |  | scale 1:1                                                                                           |  |                                            |  |
|                       |        |                   |      | dr                                                      | D.INGRAM    | 7/13/05                          |  |                |  | dwg no<br>50642                            |  |
|                       |        |                   |      | enr                                                     | D.HORCHLER  | 7/13/05                          |  |                                                                                                     |  | sheet 7 of 7                               |  |
|                       |        |                   |      | chr                                                     | T.BREWBAKER | 7/13/05                          |  |                                                                                                     |  | size<br>A3                                 |  |
|                       |        |                   |      | appd                                                    | D.HORCHLER  | 7/13/05                          |  |                                                                                                     |  | type<br>Product Customer Drawing           |  |
| sheet<br>index        |        | revision<br>sheet |      |                                                         |             |                                  |  |                                                                                                     |  |                                            |  |