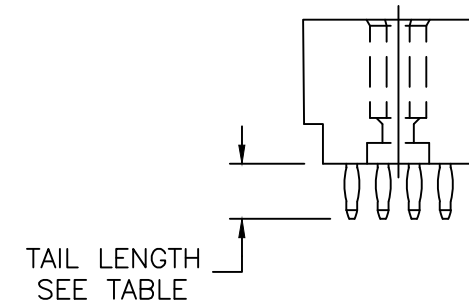
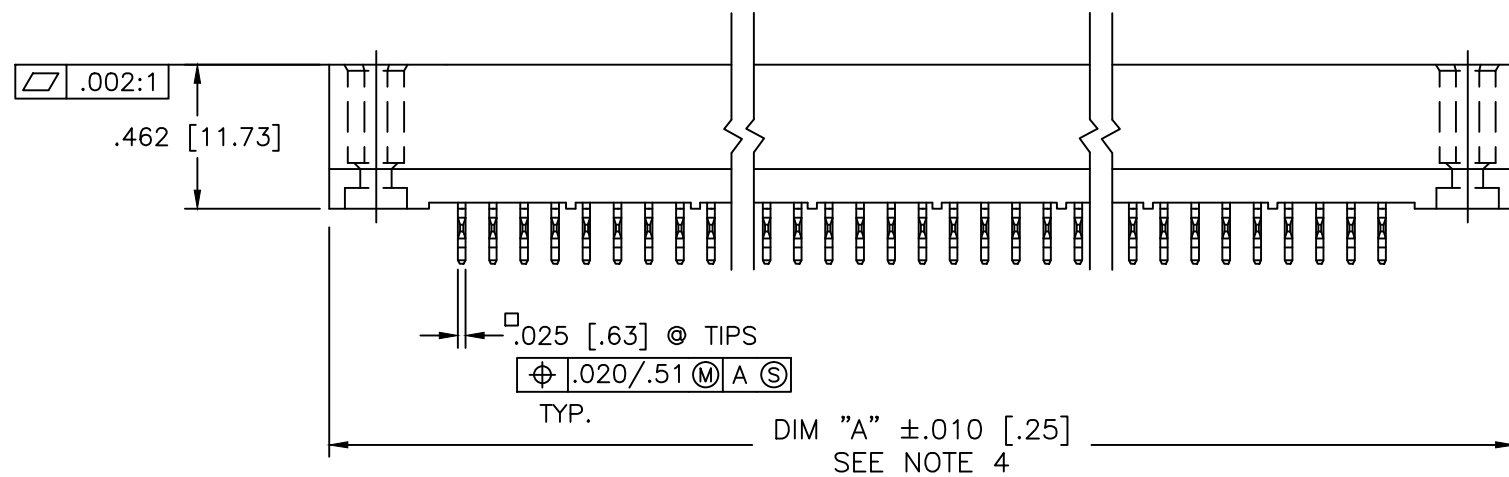
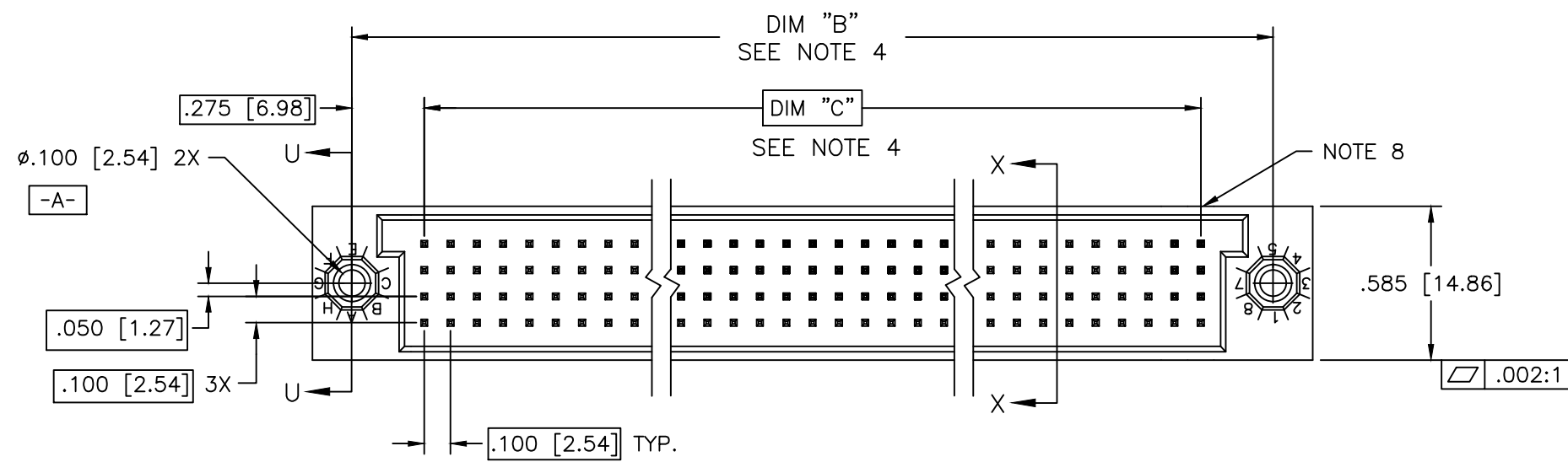


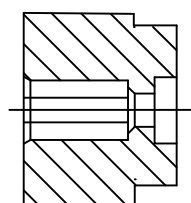
PRODUCT NUMBER  
SEE TABLE AND NOTES 1 & 2 ONSHEET 3



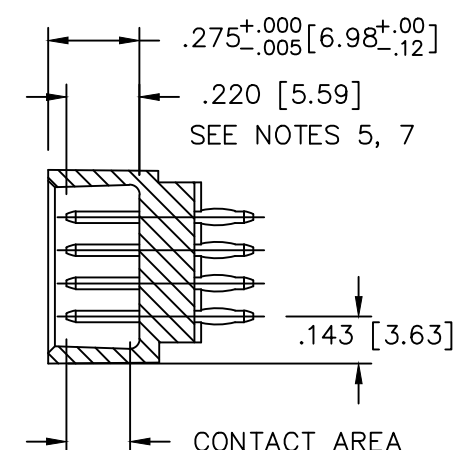
|                           |          |     |            |                                       |   |                                  |   |                       |   |                          |  |
|---------------------------|----------|-----|------------|---------------------------------------|---|----------------------------------|---|-----------------------|---|--------------------------|--|
| 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                       | ecn no   | dr  | date       | tolerances unless otherwise specified |   | linear                           |   | scale 1:1             |   | title                    |  |
| S                         | 111-0094 | SAL | 2011-05-23 | angles                                |   | .XX±.01/.3                       |   | INCH/MM               |   | 4 ROW VERTICAL HEADER    |  |
| -                         | -        | -   | -          | linear                                |   | .XXX±.005/.13                    |   | scale 1:1             |   | W/PRESS-FIT PINS, 0 G.P. |  |
| L                         | V00271   | JWS | 1/31/00    | 0°±2°                                 |   | .XXXX±.0020/.051                 |   | scale 1:1             |   | dwg no                   |  |
| M                         | V05-0612 | DCH | 6/29/05    | dr                                    |   | D.HORCHLER                       |   | 2005-06-29            |   | sheet 1 of 11            |  |
| N                         | V05-0999 | DAI | 10/29/05   | enr                                   |   | D.HORCHLER                       |   | 2005-06-29            |   | 50009                    |  |
| P                         | M06-0283 | MHT | 7/27/06    | chr                                   |   | S ALOSUIS                        |   | 2011-05-23            |   | A3                       |  |
| R                         | M06-0447 | AGS | 11/07/06   | appd                                  |   | BIJU K PAUL                      |   | 2011-05-23            |   | type                     |  |
| sheet                     | revision | S   | S          | S                                     | S | S                                | S | S                     | S | Product Customer Drawing |  |
| index                     | sheet    | 1   | 2          | 3                                     | 4 | 5                                | 6 | 7                     | 8 |                          |  |

form: A3

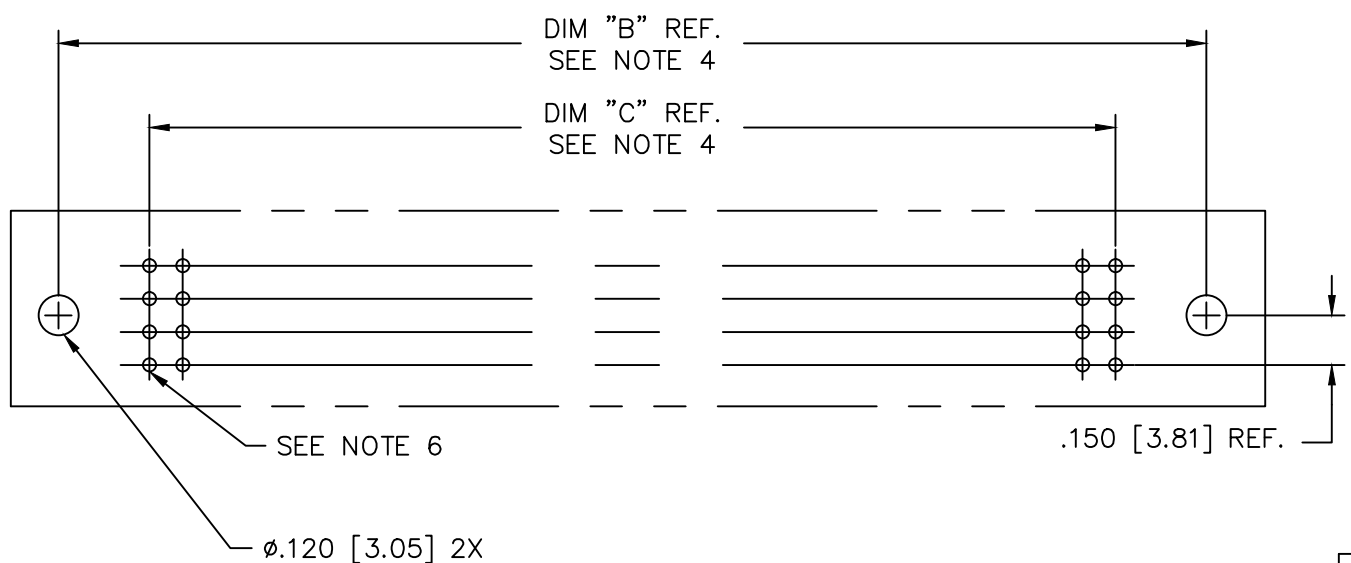
PRODUCT NO.  
SEE TABLE



SECTION U-U



SECTION X-X



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

|                           |                |    |      |                                       |                                  |                |                                                            |                               |  |               |
|---------------------------|----------------|----|------|---------------------------------------|----------------------------------|----------------|------------------------------------------------------------|-------------------------------|--|---------------|
| mat'l. code<br>SEE 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 |                                  | <br>scale 1:1  | title<br>4 ROW VERTICAL HEADER<br>W/PRESS-FIT PINS, 0 G.P. |                               |  |               |
| S                         |                |    |      | angles                                | linear                           |                |                                                            |                               |  |               |
|                           |                |    |      | 0°±2'                                 |                                  |                |                                                            |                               |  |               |
|                           |                |    |      | dr                                    | D.HORCHLER                       | 2005-06-29     |                                                            | dwg no                        |  | sheet 2 of 11 |
|                           |                |    |      | engr                                  | D.HORCHLER                       | 2005-06-29     |                                                            | 50009                         |  | size<br>A3    |
|                           |                |    |      | chr                                   | S ALOSIUS                        | 2011-05-23     |                                                            | type Product Customer Drawing |  |               |
|                           |                |    |      | appd                                  | BIJU K PAUL                      | 2011-05-23     |                                                            |                               |  |               |
| sheet index               | revision sheet |    |      |                                       |                                  |                |                                                            |                               |  |               |

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form: A3

1

2

3

4

5

6

| PRODUCT NO.<br>NOTE 11 | NUMBER<br>OF<br>POSITIONS | TAIL<br>LENGTH<br>±.015/.38 | CONTACT<br>PLATING |
|------------------------|---------------------------|-----------------------------|--------------------|
| 50009-1YYYYA           | YYY                       | .177/4.50                   | 30µ"/.76µ Au       |
| 50009-1YYYC            | YYY                       | .533/13.54                  | 30µ"/.76µ Au       |
| 50009-1YYXD            | YYY                       | .733/18.62                  | 30µ"/.76µ Au       |
| 50009-1YYYG            | YYY                       | .250/6.35                   | 30µ"/.76µ Au       |
| 50009-1YYYL            | YYY                       | .188/4.78                   | 30µ"/.76µ Au       |
| 50009-1YYYP            | YYY                       | .470/11.94                  | 30µ"/.76µ Au       |
| 50009-1YYR             | YYY                       | .250/6.35                   | 30µ"/.76µ Au       |
| 50009-3YYA             | YYY                       | .177/4.50                   | 50µ"/1.27µ Au      |
| 50009-3YYC             | YYY                       | .533/13.54                  | 50µ"/1.27µ Au      |
| 50009-3YYD             | YYY                       | .733/18.62                  | 50µ"/1.27µ Au      |
| 50009-3YYG             | YYY                       | .250/6.35                   | 50µ"/1.27µ Au      |
| 50009-3YYL             | YYY                       | .188/4.78                   | 50µ"/1.27µ Au      |
| 50009-3YYP             | YYY                       | .470/11.94                  | 50µ"/1.27µ Au      |
| 50009-3YYR             | YYY                       | .250/6.35                   | 50µ"/1.27µ Au      |
| 50009-5YYA             | YYY                       | .177/4.50                   | 30µ"/.76µ GXT      |
| 50009-5YYC             | YYY                       | .533/13.54                  | 30µ"/.76µ GXT      |
| 50009-5YYD             | YYY                       | .733/18.62                  | 30µ"/.76µ GXT      |
| 50009-5YYG             | YYY                       | .250/6.35                   | 30µ"/.76µ GXT      |
| 50009-5YYL             | YYY                       | .188/4.78                   | 30µ"/.76µ GXT      |
| 50009-5YYP             | YYY                       | .470/11.94                  | 30µ"/.76µ GXT      |
| 50009-5YYR             | YYY                       | .250/6.35                   | 30µ"/.76µ GXT      |
| 50009-XX005            | 100                       | .177/4.50                   | 50µ"/1.27µ Au      |
| 50009-XX034            | 300                       | .533/13.54                  | 30µ"/.76µ GXT      |
| 50009-XX067            | 100                       | .177/4.50                   | 50µ"/1.27µ Au      |
| 50009-XX076            | 200                       | .177/4.50                   | 30µ"/.76µ Au       |
| 50009-XX124            | 140                       | .603/15.32                  | 50µ"/1.27µ Au      |
| 50009-XX187            | 400                       | SEE SHT 9                   | 30µ"/.76µ Au       |
| 50009-XX188LF          | 320                       | SEE SHT 10                  | 50µ"/1.27µ GXT     |
| 50009-XX189LF          | 320                       | SEE SHT 11                  | 50µ"/1.27µ GXT     |

NOTES:

①

PRODUCT NUMBERING CODE:  
50009 - X YYY Z LF  
LEAD FREE OPTION  
TAIL LENGTH, SEE TABLE  
NO. OF POSITIONS SEE NOTE 2  
PLATING IN CONTACT AREA SEE TABLE  
BASE NUMBER

PRODUCT NUMBERING CODE FOR  
SELECT LOAD PART NUMBERS:  
50009 - XXYYY LF  
LEAD FREE OPTION  
SEQUENCE NUMBER  
ALWAYS 'XX'  
BASE NUMBER

②

THIS PRODUCT IS CONFIGURED IN SIZES OF 6 thru 100  
COLUMNS IN INCREMENTS OF ONE.  
i.e.: 6,7,8,9,.....99,100.

③

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

④

LENGTH CALCULATIONS:  
DIMENSION "A" = .100/2.54 x NO. OF COLUMNS + .75/19.1  
DIMENSION "B" = .100/2.54 x NO. OF COLUMNS + .450/11.43,  
DIMENSION "C" = .100/2.54 x NO. OF COLUMNS - .100/2.54

⑤

REFERENCE 50807 FOR F.M.L.B. AVAILABLE OPTIONS. SEE SHEETS 4-9.  
AND WORKSHEET.

⑥

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.

⑦

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

⑧

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

9.

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

10.

THIS PRODUCT IS NOT INTENDED TO BE EXPOSED TO A MANUFACTURING  
SOLDER PROCESS. HOWEVER, THE HOUSING MATERIAL WILL WITHSTAND  
HEAT UP TO THE 260° C.

⑪

ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.

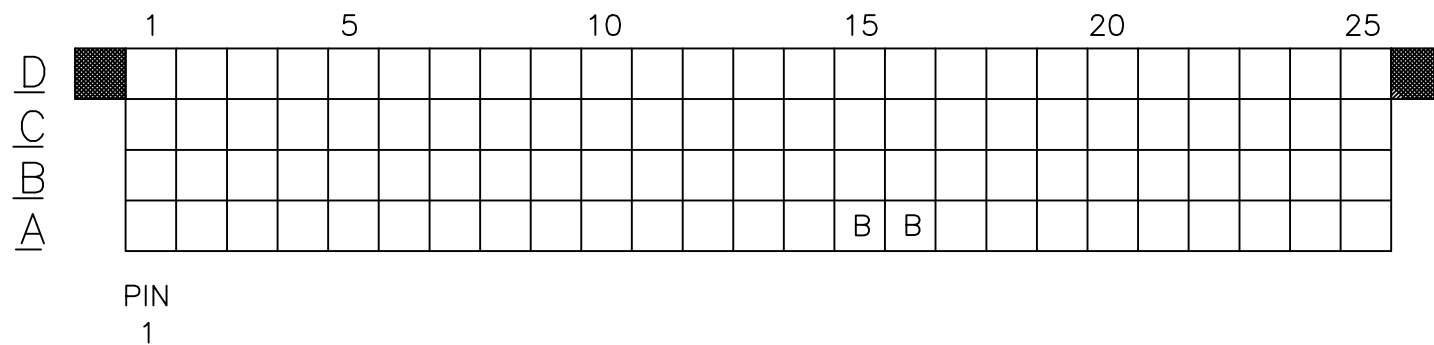
|                           |  |                                       |  |                                               |  |                       |  |                                                   |  |
|---------------------------|--|---------------------------------------|--|-----------------------------------------------|--|-----------------------|--|---------------------------------------------------|--|
| 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                             |  |
| lfr ecn no dr date        |  | tolerances unless otherwise specified |  |                                               |  |                       |  | title                                             |  |
| S                         |  | angles linear                         |  | .XX±.01/.3<br>.XXX±.005/.13<br>.XXX±.0020/.05 |  | scale 1:1             |  | 4 ROW VERTICAL HEADER<br>W/PRESS-FIT PINS, 0 G.P. |  |
|                           |  | dr                                    |  | D.HORCHLER                                    |  | 2005-06-29            |  | dwg no sheet 3 of 11size                          |  |
|                           |  | enr                                   |  | D.HORCHLER                                    |  | 2005-06-29            |  | 50009 A3                                          |  |
|                           |  | chr                                   |  | S ALOSIUS                                     |  | 2011-05-23            |  |                                                   |  |
|                           |  | appd                                  |  | BIJU K PAUL                                   |  | 2011-05-23            |  | type Product Customer Drawing                     |  |
| sheet index               |  | revision sheet                        |  |                                               |  |                       |  |                                                   |  |

PDM: Rev:S

STATUSReleased

Printed: Jul 02, 2011

|               |          |             |  |                             |                 |               |  |                               |  |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|---------------|----------|-------------|--|-----------------------------|-----------------|---------------|--|-------------------------------|--|-------------|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|--|---|--|
|               |          | 1           |  |                             |                 | 2             |  | 3                             |  |             |  |  |  |  |  |  |  |  |  | 4 |  |  |  | 5 |  |  |  | 6 |  |
| PRODUCT NO.   | ITEM KEY | SIGNAL DATA |  |                             |                 |               |  |                               |  |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|               |          | SIZE 4 x 25 |  | TOTAL NO. OF POSITIONS –100 |                 |               |  | NO. OF POSITIONS LOADED – 100 |  |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|               |          |             |  |                             | PRESS FIT STYLE |               |  |                               |  |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|               |          | PLATING     |  | QTY.                        |                 | MATING LENGTH |  |                               |  | TAIL LENGTH |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
| 50009–XX005   | A        | SEE SHEET 3 |  | 98                          |                 | .220 / 5.59   |  |                               |  | .177 / 4.50 |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|               | B        | SEE SHEET 3 |  | 2                           |                 | .260 / 6.60   |  |                               |  | .177 / 4.50 |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
| 50009–XX005LF | A        | SEE SHEET 3 |  | 98                          |                 | .220 / 5.59   |  |                               |  | .177 / 4.50 |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|               | B        | SEE SHEET 3 |  | 2                           |                 | .260 / 6.60   |  |                               |  | .177 / 4.50 |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |



- 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.

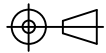
|                           |                |    |      |                                       |                                                 |             |                          |
|---------------------------|----------------|----|------|---------------------------------------|-------------------------------------------------|-------------|--------------------------|
| mat'l. code<br>SEE NOTE 3 |                |    |      | surface<br>ISO 1302                   | tolerance<br>ISO 406<br>ISO 1101                | projection  | product family<br>HPC    |
| ltr                       | ecn no         | dr | date | tolerances unless otherwise specified |                                                 | <br>INCH/MM | title                    |
| S                         |                |    |      | angles                                | linear                                          |             | 4 ROW VERTICAL HEADER    |
|                           |                |    |      | 0°±2°                                 | .XX±.01/.3<br>.XXX±.005/.13<br>.XXXX±.0020/.051 |             | W/PRESS-FIT PINS, 0 G.P. |
|                           |                |    |      | dr                                    | D.HORCHLER                                      | 2005-06-29  | dwg no                   |
|                           |                |    |      | enr                                   | D.HORCHLER                                      | 2005-06-29  | sheet 4 of 11            |
|                           |                |    |      | chr                                   | S ALOSIOUS                                      | 2011-05-23  | size                     |
|                           |                |    |      | appd                                  | BIJU K PAUL                                     | 2011-05-23  | A3                       |
| sheet index               | revision sheet |    |      |                                       |                                                 |             | type                     |
|                           |                |    |      |                                       |                                                 |             | Product Customer Drawing |

form: A3

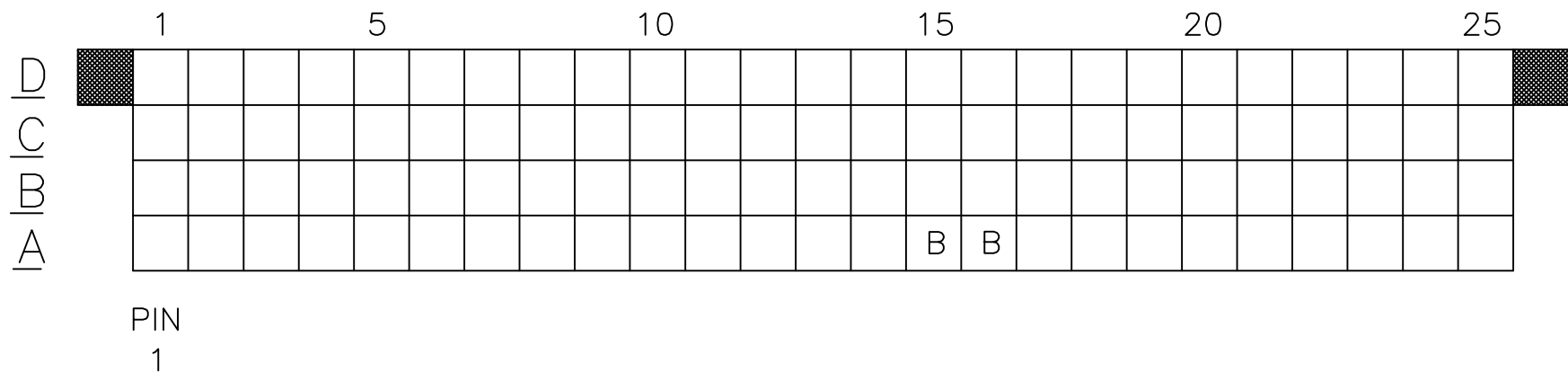
| PRODUCT NO.   | ITEM KEY | SIGNAL DATA |                             |                               |              |
|---------------|----------|-------------|-----------------------------|-------------------------------|--------------|
|               |          | SIZE 4 x 75 | TOTAL NO. OF POSITIONS -300 | NO. OF POSITIONS LOADED - 300 |              |
|               |          | PLATING     | QTY.                        | PRESS FIT STYLE               |              |
|               |          |             |                             | MATING LENGTH                 | TAIL LENGTH  |
| 50009-XX034   | A        | SEE SHEET 3 | 260                         | .180 / 4.57                   | .533 / 13.54 |
|               | B        | SEE SHEET 3 | 40                          | .220 / 5.59                   | .533 / 13.54 |
| 50009-XX034LF | A        | SEE SHEET 3 | 260                         | .180 / 4.57                   | .533 / 13.54 |
|               | B        | SEE SHEET 3 | 40                          | .220 / 5.59                   | .533 / 13.54 |

|       | 1  | 5  | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
|-------|----|----|----|----|----|----|----|----|----|
| D     | B  | B  | B  |    |    |    |    | B  | B  |
| C     | B  | B  | B  |    |    |    |    | B  | B  |
| B     | B  | B  | B  |    |    |    |    | B  | B  |
| A     | B  | B  | B  |    |    |    |    | B  | B  |
| PIN 1 |    |    |    |    |    |    |    |    |    |
|       | 41 | 45 | 50 | 55 | 60 | 65 | 70 | 75 |    |
|       | B  |    |    |    |    |    |    | B  | B  |
|       | B  |    |    |    |    |    |    | B  | B  |
|       | B  |    |    |    |    |    |    | B  | B  |
|       | B  |    |    |    |    |    |    | B  | B  |

- 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.

|                           |                |    |    |                                       |                                                 |                                                                                                     |                          |
|---------------------------|----------------|----|----|---------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------|
| mat'l. code<br>SEE NOTE 3 |                |    |    | surface<br>ISO 1302                   | tolerance<br>ISO 406<br>ISO 1101                | projection<br> | product family<br>HPC    |
| ltr                       | ecn            | no | dr | tolerances unless otherwise specified |                                                 |                                                                                                     | title                    |
| S                         |                |    |    | angles                                | linear                                          | INCH/MM                                                                                             | 4 ROW VERTICAL HEADER    |
|                           |                |    |    | 0°±2°                                 | .XX±.01/.3<br>.XXX±.005/.13<br>.XXXX±.0020/.051 | scale 1:1                                                                                           | W/PRESS-FIT PINS, 0 G.P. |
|                           |                |    |    | dr                                    | D.HORCHLER                                      | 2005-06-29                                                                                          | dwg no                   |
|                           |                |    |    | enr                                   | D.HORCHLER                                      | 2005-06-29                                                                                          | sheet 5 of 11            |
|                           |                |    |    | chr                                   | S ALOSIOUS                                      | 2011-05-23                                                                                          | size                     |
|                           |                |    |    | appd                                  | BIJU K PAUL                                     | 2011-05-23                                                                                          | A3                       |
| sheet index               | revision sheet |    |    |                                       |                                                 |                                                                                                     | type                     |
|                           |                |    |    |                                       |                                                 |                                                                                                     | Product Customer Drawing |

| PRODUCT NO.   | ITEM KEY | SIGNAL DATA     |                             |                               |
|---------------|----------|-----------------|-----------------------------|-------------------------------|
|               |          | SIZE 4 x 25     | TOTAL NO. OF POSITIONS –100 | NO. OF POSITIONS LOADED – 100 |
|               |          | CONTACT PLATING | QTY.                        | MATING LENGTH                 |
| 50009–XX067   | A        | SEE SHEET 3     | 98                          | .200 / 5.08                   |
|               | B        | SEE SHEET 3     | 2                           | .240 / 6.10                   |
| 50009–XX067LF | A        | SEE SHEET 3     | 98                          | .200 / 5.08                   |
|               | B        | SEE SHEET 3     | 2                           | .240 / 6.10                   |



1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

|                           |                |    |    |                                       |                                                 |                          |                                                            |
|---------------------------|----------------|----|----|---------------------------------------|-------------------------------------------------|--------------------------|------------------------------------------------------------|
| mat'l. code<br>SEE NOTE 3 |                |    |    | surface<br>ISO 1302                   | tolerance<br>ISO 406<br>ISO 1101                | projection<br>           | product family<br>HPC                                      |
| ltr                       | ecn            | no | dr | tolerances unless otherwise specified |                                                 | INCH/MM<br>scale 1:1<br> | title<br>4 ROW VERTICAL HEADER<br>W/PRESS-FIT PINS, 0 G.P. |
| S                         |                |    |    | angles                                | linear                                          |                          | dwg no<br>50009<br>type Product Customer Drawing           |
|                           |                |    |    | 0°±2°                                 | .XX±.01/.3<br>.XXX±.005/.13<br>.XXXX±.0020/.051 |                          |                                                            |
|                           |                |    |    | dr                                    | D.HORCHLER 2005-06-29                           |                          |                                                            |
|                           |                |    |    | enr                                   | D.HORCHLER 2005-06-29                           |                          | sheet 6 of 11                                              |
|                           |                |    |    | chr                                   | S ALOSIOUS 2011-05-23                           |                          | size A3                                                    |
|                           |                |    |    | appd                                  | BIJU K PAUL 2011-05-23                          |                          |                                                            |
| sheet index               | revision sheet |    |    |                                       |                                                 |                          |                                                            |

form: A3

|               |          |             |                              |               |                               |                  |
|---------------|----------|-------------|------------------------------|---------------|-------------------------------|------------------|
| PRODUCT NO.   | ITEM KEY | SIGNAL DATA |                              |               |                               |                  |
|               |          | SIZE 4 x 50 | TOTAL NO. OF POSITIONS – 200 |               | NO. OF POSITIONS LOADED – 200 |                  |
|               |          | PIN PLATING | QTY.                         | MATING LENGTH | TAIL LENGTH                   | TOTAL PIN LENGTH |
|               |          |             |                              |               |                               |                  |
| 50009–XX076   | A        | SEE SHEET 3 | 130                          | .230 / 5.84   | .177 / 4.50                   | .595 / 15.11     |
|               | B        | SEE SHEET 3 | 68                           | .270 / 6.86   | .177 / 4.50                   | .634 / 16.10     |
|               | C        | SEE SHEET 3 | 2                            | .190 / 4.83   | .177 / 4.50                   | .555 / 14.10     |
| 50009–XX076LF | A        | SEE SHEET 3 | 130                          | .230 / 5.84   | .177 / 4.50                   | .595 / 15.11     |
|               | B        | SEE SHEET 3 | 68                           | .270 / 6.86   | .177 / 4.50                   | .634 / 16.10     |
|               | C        | SEE SHEET 3 | 2                            | .190 / 4.83   | .177 / 4.50                   | .555 / 14.10     |

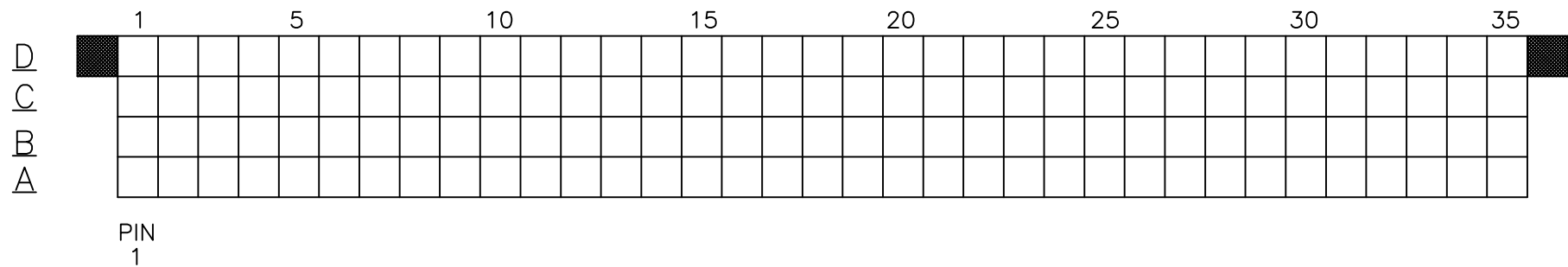
|          |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |  |
|----------|---|---|---|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|--|
|          | 1 |   | 5 |   | 10 |   | 15 |   | 20 |   | 25 |   | 30 |   | 35 |   | 40 |   | 45 |   | 50 |  |
| <u>D</u> | B | C |   | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B | C  |  |
| <u>C</u> | B |   |   | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    |  |
| <u>B</u> | B |   |   | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    |  |
| <u>A</u> | B |   |   | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    | B |    |  |
| PIN      |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |  |
| 1        |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |  |

1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.  
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

|                           |                |    |    |                     |                                       |                                                                                                               |                               |
|---------------------------|----------------|----|----|---------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------|
| mat'l. code<br>SEE NOTE 3 |                |    |    | surface<br>ISO 1302 | tolerance<br>ISO 406<br>ISO 1101      | projection                                                                                                    | product family<br>HPC         |
| ltr                       | ecn            | no | dr | date                | tolerances unless otherwise specified | <br>INCH/MM<br>scale 1:1 | title                         |
| S                         |                |    |    |                     | angles linear .XX±.01/.3              |                                                                                                               | 4 ROW VERTICAL HEADER         |
|                           |                |    |    |                     | .XXX±.005/.13                         |                                                                                                               | W/PRESS-FIT PINS, 0 G.P.      |
|                           |                |    |    |                     | .XXXX±.0020/.051                      |                                                                                                               | dwg no                        |
|                           |                |    |    | dr                  | D.HORCHLER 2005-06-29                 |                          | sheet 7 of 11                 |
|                           |                |    |    | enr                 | D.HORCHLER 2005-06-29                 |                                                                                                               | size                          |
|                           |                |    |    | chr                 | S ALOSIOUS 2011-05-23                 |                                                                                                               | 50009 A3                      |
|                           |                |    |    | appd                | BIJU K PAUL 2011-05-23                |                                                                                                               | type Product Customer Drawing |
| sheet index               | revision sheet |    |    |                     |                                       |                                                                                                               |                               |

form: A3

|               |             |                             |                              |               |              |
|---------------|-------------|-----------------------------|------------------------------|---------------|--------------|
| PRODUCT NO.   | SIGNAL DATA |                             |                              |               |              |
|               | SIZE 4 x 35 | TOTAL NO. OF POSITIONS -140 | NO OF POSITIONS LOADED - 140 |               |              |
|               | ITEM KEY    | PINS: PLATING:              | QUANTITY                     | MATING LENGTH | TAIL LENGTH  |
|               |             |                             |                              |               |              |
| 50009-XX124   | A           | SEE SHEET 3                 | 140                          | .220 / 5.59   | .603 / 15.32 |
| 50009-XX124LF | A           | SEE SHEET 3                 | 140                          | .220 / 5.59   | .603 / 15.32 |



- ALL POSITIONS ARE LOADED WITH "A".
- COLUMN 1 ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

|                           |          |       |    |                     |                                       |                |                          |                          |  |  |
|---------------------------|----------|-------|----|---------------------|---------------------------------------|----------------|--------------------------|--------------------------|--|--|
| mat'l. code<br>SEE 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 |                | title                    |                          |  |  |
| S                         |          |       |    |                     | angles                                | linear         | 4 ROW VERTICAL HEADER    |                          |  |  |
|                           |          |       |    |                     | 0°±2°                                 |                | W/PRESS-FIT PINS, 0 G.P. |                          |  |  |
|                           |          |       |    |                     | dr                                    | D.HORCHLER     | 2005-06-29               | dwg no                   |  |  |
|                           |          |       |    |                     | enr                                   | D.HORCHLER     | 2005-06-29               | sheet 8 of 11            |  |  |
|                           |          |       |    |                     | chr                                   | S ALOSIOUS     | 2011-05-23               | 50009                    |  |  |
|                           |          |       |    |                     | appd                                  | BIJU K PAUL    | 2011-05-23               | A3                       |  |  |
| sheet index               | revision | sheet |    |                     |                                       |                |                          | type                     |  |  |
|                           |          |       |    |                     |                                       |                |                          | Product Customer Drawing |  |  |

|                |          |             |     |                             |                 |               |  |                               |              |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|----------------|----------|-------------|-----|-----------------------------|-----------------|---------------|--|-------------------------------|--------------|-------------|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|--|---|--|
|                |          | 1           |     |                             |                 | 2             |  | 3                             |              |             |  |  |  |  |  |  |  |  |  | 4 |  |  |  | 5 |  |  |  | 6 |  |
| PRODUCT NUMBER | ITEM KEY | SIGNAL DATA |     |                             |                 |               |  |                               |              |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                |          | SIZE 4 x 50 |     | TOTAL NO. OF POSITIONS -200 |                 |               |  | NO. OF POSITIONS LOADED - 200 |              |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                |          |             |     |                             | PRESS FIT STYLE |               |  |                               |              |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                |          | PIN PLATING |     | QTY.                        |                 | MATING LENGTH |  |                               |              | TAIL LENGTH |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
| 50009-XX187    | A        | SEE SHEET 3 | 85  |                             | .220 / 5.59     |               |  |                               | .561 / 14.25 |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                | B        | SEE SHEET 3 | 1   |                             | .180 / 4.57     |               |  |                               | .521 / 13.23 |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                | C        | SEE SHEET 3 | 8   |                             | .260 / 6.60     |               |  |                               | .601 / 15.27 |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                | D        | SEE SHEET 3 | 106 |                             | .220 / 5.59     |               |  |                               | .177 / 4.50  |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
| 50009-XX187LF  | A        | SEE SHEET 3 | 85  |                             | .220 / 5.59     |               |  |                               | .561 / 14.25 |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                | B        | SEE SHEET 3 | 1   |                             | .180 / 4.57     |               |  |                               | .521 / 13.23 |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                | C        | SEE SHEET 3 | 8   |                             | .260 / 6.60     |               |  |                               | .601 / 15.27 |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |
|                | D        | SEE SHEET 3 | 106 |                             | .220 / 5.59     |               |  |                               | .177 / 4.50  |             |  |  |  |  |  |  |  |  |  |   |  |  |  |   |  |  |  |   |  |

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

PIN  
1

| 26 | 30 | 35 | 40 | 45 | 50 |
|----|----|----|----|----|----|
| A  | A  | A  | A  | A  | A  |
|    | A  | A  | A  | A  | C  |
|    | A  | A  | A  | A  | C  |
| A  | A  | A  | A  | A  |    |

- ALL POSITIONS ARE LOADED WITH "D" EXCEPT AS SHOWN.
- COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

|                           |                   |    |    |                                       |                                                 |                                                                                                               |                                                            |
|---------------------------|-------------------|----|----|---------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| mat'l. code<br>SEE NOTE 3 |                   |    |    | surface<br>ISO 1302                   | tolerance<br>ISO 406<br>ISO 1101                | projection<br>           | product family<br>HPC                                      |
| ltr                       | ecn               | no | dr | tolerances unless otherwise specified |                                                 | INCH/MM<br>scale 1:1<br> | title<br>4 ROW VERTICAL HEADER<br>W/PRESS-FIT PINS, 0 G.P. |
| S                         |                   |    |    | angles                                | linear                                          |                                                                                                               |                                                            |
|                           |                   |    |    | 0°±2°                                 | .XX±.01/.3<br>.XXX±.005/.13<br>.XXXX±.0020/.051 |                                                                                                               |                                                            |
|                           |                   |    |    | dr                                    | D.HORCHLER                                      |                                                                                                               | dwg no                                                     |
|                           |                   |    |    | enr                                   | D.HORCHLER                                      |                                                                                                               | sheet 9 of 11                                              |
|                           |                   |    |    | chr                                   | S ALOSIOUS                                      |                                                                                                               | size<br>A3                                                 |
|                           |                   |    |    | appd                                  | BIJU K PAUL                                     |                                                                                                               | type<br>Product Customer Drawing                           |
| sheet<br>index            | revision<br>sheet |    |    |                                       |                                                 |                                                                                                               |                                                            |

| PRODUCT NUMBER | ITEM KEY | SIGNAL DATA |                             |                               |              |
|----------------|----------|-------------|-----------------------------|-------------------------------|--------------|
|                |          | SIZE 4 x 80 | TOTAL NO. OF POSITIONS –320 | NO. OF POSITIONS LOADED – 320 |              |
|                |          |             |                             | PRESS FIT STYLE               |              |
|                |          | PIN PLATING | QTY.                        | MATING LENGTH                 | TAIL LENGTH  |
| 50009–XX188LF  | A        | SEE SHEET 3 | 304                         | .210 / 5.33                   | .533 / 13.54 |
|                | B        | SEE SHEET 3 | 16                          | .244 / 6.20                   | .533 / 13.54 |

|       |  |    |   |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |   |
|-------|--|----|---|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|---|
|       |  | 1  |   | 5  |  | 10 |  | 15 |  | 20 |  | 25 |  | 30 |  | 35 |  | 40 |   |
| D     |  | B  | B |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |   |
| C     |  | B  | B |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |   |
| B     |  | B  | B |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |   |
| A     |  | B  | B |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |   |
| PIN 1 |  |    |   |    |  |    |  |    |  |    |  |    |  |    |  |    |  |    |   |
|       |  | 41 |   | 45 |  | 50 |  | 55 |  | 60 |  | 65 |  | 70 |  | 75 |  | 80 |   |
|       |  |    |   |    |  |    |  |    |  |    |  |    |  |    |  |    |  | B  | B |
|       |  |    |   |    |  |    |  |    |  |    |  |    |  |    |  |    |  | B  | B |
|       |  |    |   |    |  |    |  |    |  |    |  |    |  |    |  |    |  | B  | B |
|       |  |    |   |    |  |    |  |    |  |    |  |    |  |    |  |    |  | B  | B |

1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

|                           |                |    |      |                                       |                                  |                          |                                                            |  |  |  |
|---------------------------|----------------|----|------|---------------------------------------|----------------------------------|--------------------------|------------------------------------------------------------|--|--|--|
| mat'l. code<br>SEE 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 |                                  | <br>INCH/MM<br>scale 1:1 | title<br>4 ROW VERTICAL HEADER<br>W/PRESS-FIT PINS, 0 G.P. |  |  |  |
| S                         |                |    |      | angles                                | linear                           |                          |                                                            |  |  |  |
|                           |                |    |      | 0°±2'                                 |                                  |                          |                                                            |  |  |  |
|                           |                |    |      | dr                                    | S ALOSIOUS                       | 2011-06-29               |                                                            |  |  |  |
|                           |                |    |      | enr                                   | S ALOSIOUS                       | 2011-06-29               |                                                            |  |  |  |
|                           |                |    |      | chr                                   | S ALOSIOUS                       | 2011-06-29               |                                                            |  |  |  |
|                           |                |    |      | appd                                  | BIJU K PAUL                      | 2011-06-29               |                                                            |  |  |  |
| sheet index               | revision sheet |    |      |                                       |                                  |                          |                                                            |  |  |  |

| PRODUCT NUMBER | ITEM KEY | SIGNAL DATA |                             |                               |              |
|----------------|----------|-------------|-----------------------------|-------------------------------|--------------|
|                |          | SIZE 4 x 80 | TOTAL NO. OF POSITIONS -320 | NO. OF POSITIONS LOADED - 320 |              |
|                |          |             |                             | PRESS FIT STYLE               |              |
|                |          | PIN PLATING | QTY.                        | MATING LENGTH                 | TAIL LENGTH  |
| 50009-XX189LF  | A        | SEE SHEET 3 | 304                         | .210 / 5.33                   | .660 / 16.76 |
|                | B        | SEE SHEET 3 | 16                          | .245 / 6.22                   | .660 / 16.76 |

|       | 1  | 5  | 10 | 15 | 20 | 25 | 30 | 35 | 40  |
|-------|----|----|----|----|----|----|----|----|-----|
| D     | B  | B  |    |    |    |    |    |    |     |
| C     | B  | B  |    |    |    |    |    |    |     |
| B     | B  | B  |    |    |    |    |    |    |     |
| A     | B  | B  |    |    |    |    |    |    |     |
| PIN 1 |    |    |    |    |    |    |    |    |     |
|       | 41 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80  |
|       |    |    |    |    |    |    |    |    | B B |
|       |    |    |    |    |    |    |    |    | B B |
|       |    |    |    |    |    |    |    |    | B B |
|       |    |    |    |    |    |    |    |    | B B |

1. ALL POSITIONS ARE LOADED WITH "A" EXCEPT AS SHOWN.  
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

|                           |                |                       |                                  |                                                                                                     |                                                   |
|---------------------------|----------------|-----------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| mat'l. code<br>SEE 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                                                               | title                                             |
| S                         |                |                       |                                  | angles<br>linear<br>0°±2'                                                                           | 4 ROW VERTICAL HEADER<br>W/PRESS-FIT PINS, 0 G.P. |
|                           |                |                       |                                  | .xx±.01/.3<br>.xxx±.005/.13<br>.xxxx±.0020/.051                                                     | INCH/MM<br>scale 1:1                              |
|                           |                | dr                    | S. ALOSIOUS                      | 2011-06-29                                                                                          | dwg no                                            |
|                           |                | enr                   | S. ALOSIOUS                      | 2011-06-29                                                                                          | sheet 11 of 11 size                               |
|                           |                | chr                   | S. ALOSIOUS                      | 2011-06-29                                                                                          | 50009 A3                                          |
|                           |                | appd                  | BIJU K PAUL                      | 2011-06-29                                                                                          | type Product Customer Drawing                     |
| sheet index               | revision sheet |                       |                                  |                                                                                                     |                                                   |