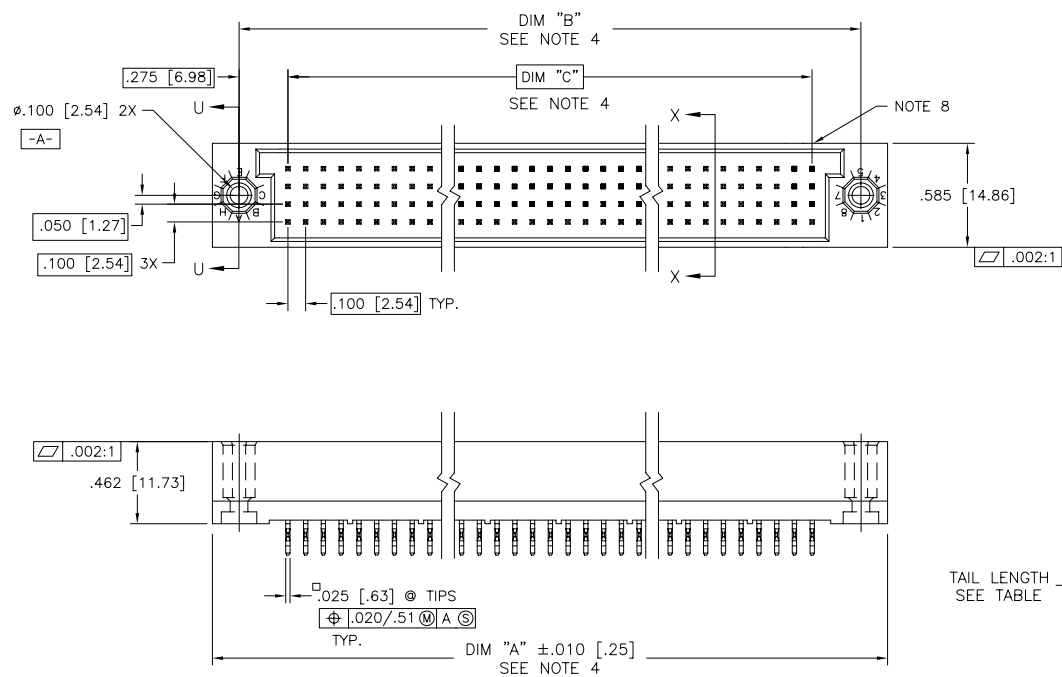


PRODUCT NUMBER
SEE TABLE AND NOTES 1 & 2 ONSHEET 3

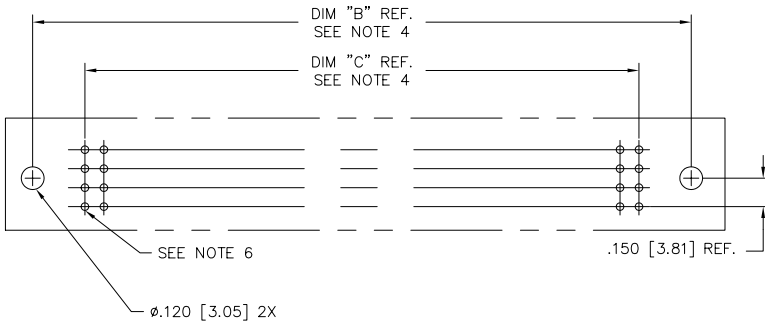
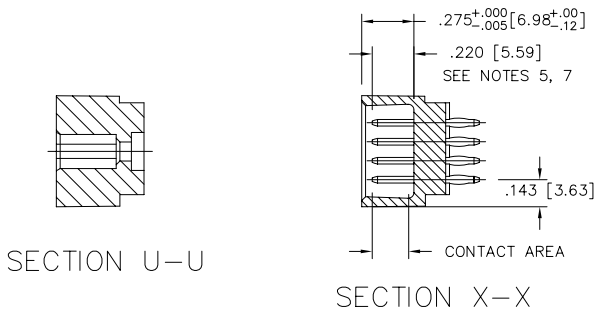


TAIL LENGTH
SEE TABLE

| | | | | |
|---------------------------------|---------------------------------------|----------------------------------|-----------------------|--|
| mat'l. code SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection INCH/MM | product family HPC |
| ltr ecn no ldr date | tolerances unless otherwise specified | angles linear | scale 1:1 | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| J v81411 DLW 8/20/98 | .XXX±.01/3 | 0°±2' | | dwg no 50009 |
| K v82253 HTB 12/29/98 | .XXXX±.005/13 | | | sheet 1 of 9 size A3 |
| L v00271 JWS 1/31/00 | .XXXX±.0020/.051 | | | type Product Customer Drawing |
| M v05-0612 DCH 6/29/05 dr | D.HORCHLER 6/29/05 | | | |
| N v05-0999 DAI 10/29/05 engr | D.HORCHLER 6/29/05 | | | |
| P v06-0283 MHT 7/27/06 chr | T.BREWBAKER 7/5/05 | | | |
| R v06-0447 AGS 11/07/06 appd | D.HORCHLER 7/5/05 | | | |
| sheet index | revision R R R R R R R R R R | | | |
| | sheet 1 2 3 4 5 6 7 8 9 | | | |

PDM: Rev:R STATUS:Released Printed: Feb 09, 2010

PRODUCT NO.
SEE TABLE



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

| | | | | |
|---------------------------|-----------------------|----------------------------------|---|--|
| mat'l. code SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection INCH/MM | product family HPC |
| ltr R | ecn no | dr date | angles linear | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | | tolerances unless otherwise specified XXX.01/3 .XXX±.005/.13 XXXX±.0020/.051 | scale 1:1 |
| | | dr D.HORCHLER 6/29/05 | | dwg no 50009 |
| | | enfr D.HORCHLER 6/29/05 | | sheet 2 of 9 size A3 |
| | | chr T.BREWBAKER 7/5/05 | | type Product Customer Drawing |
| | | appd D.HORCHLER 7/5/05 | | |
| sheet index | revision sheet | | | |

PDM: Rev:R STATUS:Released Printed: Feb 09, 2010

| PRODUCT NO. NOTE 11 | NUMBER OF POSITIONS | TAIL LENGTH ±.015/-.38 | CONTACT PLATING |
|------------------------|---------------------------|------------------------------|--------------------|
| 50009-1YYYA | YYY | .177/4.50 | 30μ"/.76μ Au |
| 50009-1YYC | YYY | .533/13.54 | 30μ"/.76μ Au |
| 50009-1YYD | YYY | .733/18.62 | 30μ"/.76μ Au |
| 50009-1YYG | YYY | .250/6.35 | 30μ"/.76μ Au |
| 50009-1YYL | YYY | .188/4.78 | 30μ"/.76μ Au |
| 50009-1YYP | 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 |

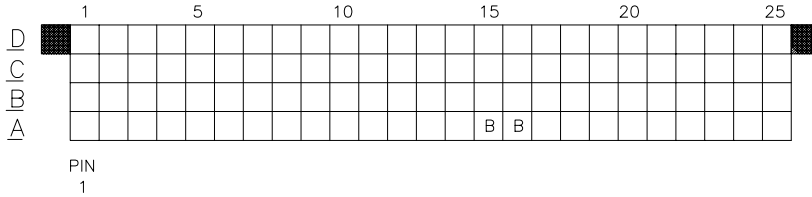
SHT 4
SHT 5
SHT 6
SHT 7
SHT 8
SHT 9

NOTES:

- ① PRODUCT NUMBERING CODE:
50009 - X YYY Z LF
 X: LEAD FREE OPTION
 YYY: TAIL LENGTH, SEE TABLE
 Z: NO. OF POSITIONS SEE NOTE 2
 LF: PLATING IN CONTACT AREA SEE TABLE
 BASE NUMBER
- PRODUCT NUMBERING CODE FOR
SELECT LOAD PART NUMBERS:
50009 - XXYYY LF
 XX: LEAD FREE OPTION
 YYY: 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 φ.0453/1.151 DRILLED HOLE PLATED WITH .0003/.007 MIN. Sn/Pb OVER .001/.03 to .003/.08 Cu. PLATING TO ACHIEVE A φ.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.
- ⑩ ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.

| | | | | |
|---------------------------|---------------------------------------|----------------------------------|------------|-----------------------------------|
| mat'l. code SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection | product family HPC |
| ltr ecn no dr date | tolerances unless otherwise specified | | title | |
| R | angles | linear | INCH/MM | 4 ROW VERTICAL HEADER |
| | 0°±2' | .xxx±.005/.13 | scale 1:1 | W/PRESS-FIT PINS, 0 G.P. |
| | dr | D.HORCHLER 6/29/05 | FCJ | dwg no 50009 sheet 3 of 9 size A3 |
| | engr | D.HORCHLER 6/29/05 | | type Product Customer Drawing |
| | chr | T.BREWBAKER 7/5/05 | | |
| | appd | D.HORCHLER 7/5/05 | | |
| sheet index | revision sheet | | | |

| 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 |



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 SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection ASME Y14.5 | product family HPC |
| ltr R | ecn no | dr date | tolerances unless otherwise specified angles linear 0°±2' | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | | scale 1:1 | dwg no 50009 |
| | | dr D.HORCHLER 6/29/05 | FCJ | sheet 4 of 9 size A3 |
| | | enfr D.HORCHLER 6/29/05 | | type Product Customer Drawing |
| | | chr T.BREWBAKER 7/5/05 | | |
| sheet index | revision sheet | appd D.HORCHLER 7/5/05 | | |

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| 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 | | B |
| C | B | B | B | | | | | | | | | | | | | B | B | | B |
| B | B | B | | | | | | | | | | | | | | B | B | | B |
| A | B | B | B | | | | | | | | | | | | | B | B | | B |

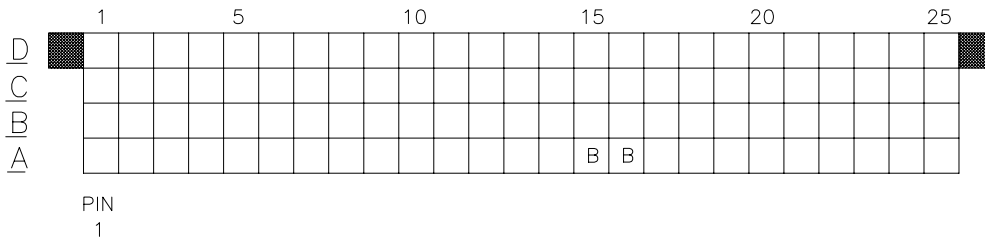
PIN
1

| | | | | | | | | | | | | | | | | | | |
|---|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|---|---|
| | | 41 | | 45 | | 50 | | 55 | | 60 | | 65 | | 70 | | 75 | | |
| B | | | | | | | | | | | | | | | | B | B | B |
| B | | | | | | | | | | | | | | | | B | B | B |
| B | | | | | | | | | | | | | | | | B | B | B |
| 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 SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection INCH/MM | product family HPC |
| ltr R | ecn no | dr date | angles linear | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | | scale 1:1 | dwg no 50009 |
| | | dr D.HORCHLER 6/29/05 | | sheet 5 of 9 size A3 |
| | | enrg D.HORCHLER 6/29/05 | | type Product Customer Drawing |
| | | chr T.BREWBAKER 7/5/05 | | |
| | | appd D.HORCHLER 7/5/05 | | |
| sheet index | revision sheet | | | |

| 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 |

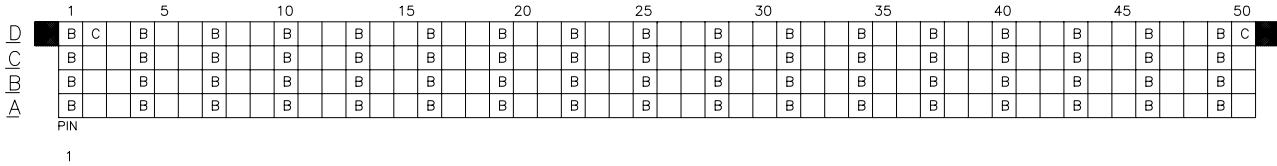


1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

| | | | | |
|---------------------------|-----------------------|----------------------------------|--|--|
| mat'l. code SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection 1st angle | product family HPC |
| ltr R | ecn no | dr date | tolerances unless otherwise specified angles linear 0°±2' | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | | dr D.HORCHLER 6/29/05 | scale 1:1 |
| | | | enrg D.HORCHLER 6/29/05 | FCI |
| | | | chr T.BREWBAKER 7/5/05 | dwg no 50009 |
| | | | appd D.HORCHLER 7/5/05 | sheet 6 of 9 size A3 |
| sheet index | revision sheet | | | type Product Customer Drawing |

PDM: Rev:R STATUS:Released Printed: Feb 09, 2010

| 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 |

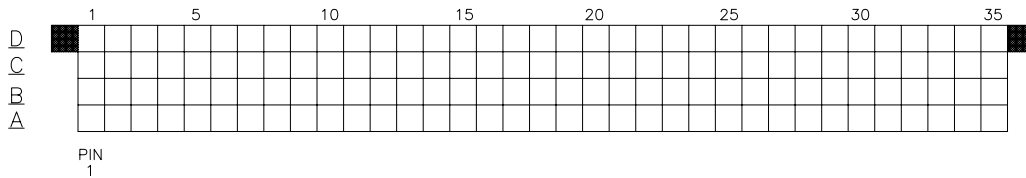


1. ALL POSITIONS ARE LOADED WITH "A", EXCEPT AS SHOWN.
2. COLUMN 1, ROW A IS DESIGNATED AS SIGNAL PIN 1, AS VIEWED FROM THE MATING FACE.

| | | | | |
|---------------------------|-----------------------|----------------------------------|--|--|
| mat'l. code SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection ASME Y14.5 | product family HPC |
| ltr R | ecn no | dr date | angles linear | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | | tolerances unless otherwise specified XXX±.01/3 XXXX±.005/.13 XXXX±.0020/.051 | scale 1:1 |
| | | dr D.HORCHLER 6/29/05 | | dwg no 50009 |
| | | enfr D.HORCHLER 6/29/05 | | sheet 7 of 9 size A3 |
| | | chr T.BREWBAKER 7/5/05 | | type Product Customer Drawing |
| | | appd D.HORCHLER 7/5/05 | | |
| sheet index | revision sheet | | | |

PDM: Rev:R STATUS:Released Printed: Feb 09, 2010

| 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 |



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

| | | | | |
|---------------------------|-----------------------|----------------------------------|--|--|
| mat'l. code SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection | product family HPC |
| ltr R | ecn no | dr date | angles linear | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | | tolerances unless otherwise specified XXX±.01/3 .XXX±.005/13 XXXX±.0020/.05 | scale 1:1 |
| | | dr D.HORCHLER 6/29/05 | | dwg no 50009 |
| | | enrg D.HORCHLER 6/29/05 | | sheet 8 of 9 size A3 |
| | | chr T.BREWBAKER 7/5/05 | | type Product Customer Drawing |
| | | appd D.HORCHLER 7/5/05 | | |
| sheet index | revision sheet | | | |

PDM: Rev:R STATUS:Released Printed: Feb 09, 2010

| 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 | A | A | C |
| A | A | A | A | A | A | C |

- 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 SEE NOTE 3 | surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101 | projection | product family HPC |
| ltr R | ecn no | dr date | angles linear | tolerances unless otherwise specified XXX.01/3 .XXX±.005/.13 XXXX±.0020/.051 |
| | | dr D.HORCHLER 6/29/05 | INCH/MM | title 4 ROW VERTICAL HEADER W/PRESS-FIT PINS, 0 G.P. |
| | | enfr D.HORCHLER 6/29/05 | scale 1:1 | dwg no 50009 |
| | | chr T.BREWBAKER 7/5/05 | | sheet 9 of 9 size A3 |
| | | appd D.HORCHLER 7/5/05 | | type Product Customer Drawing |
| sheet index | revision sheet | | | |