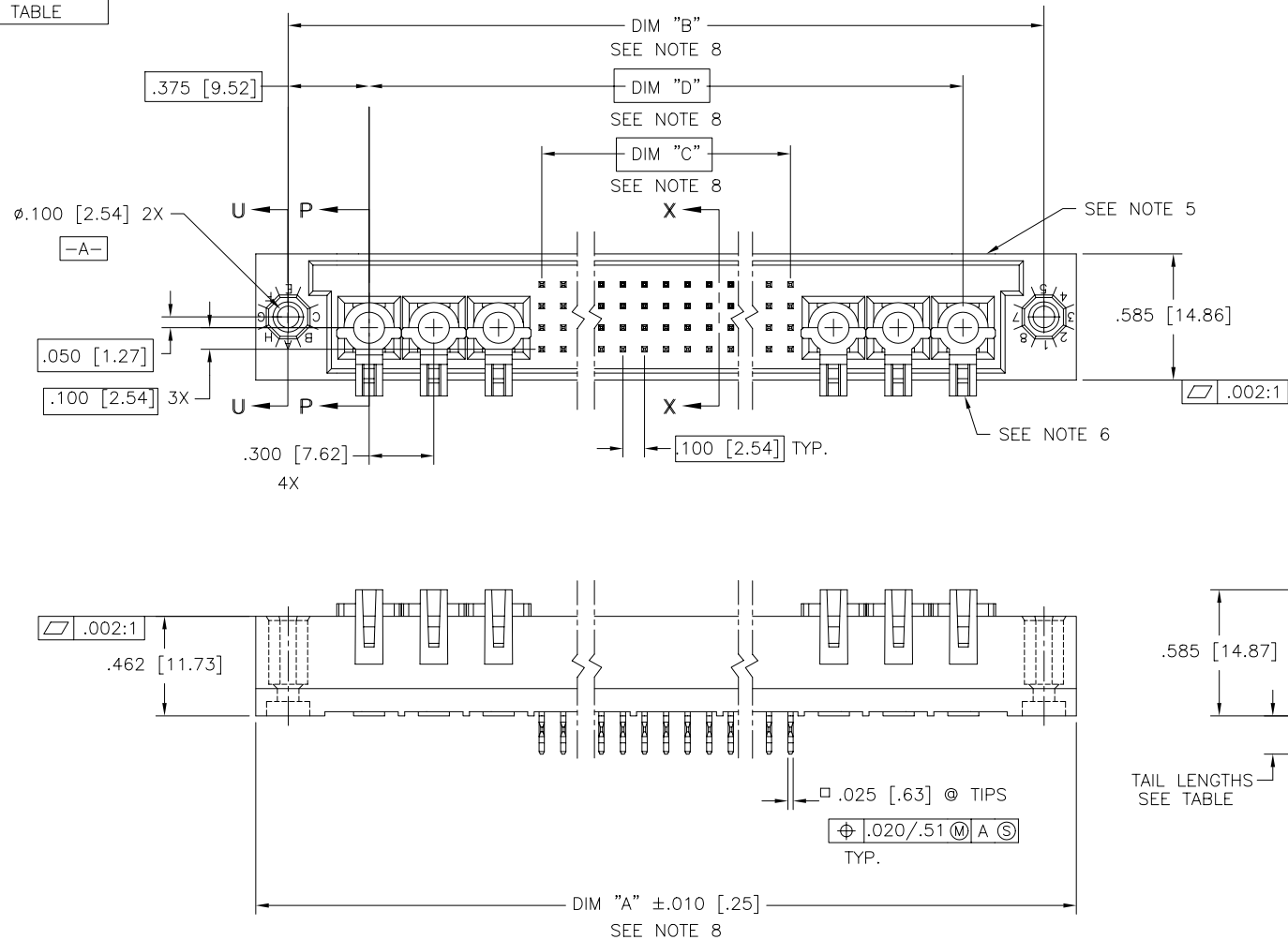




FCIconnect.com

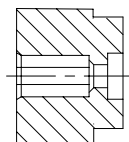
Copyright FCI

form: A3

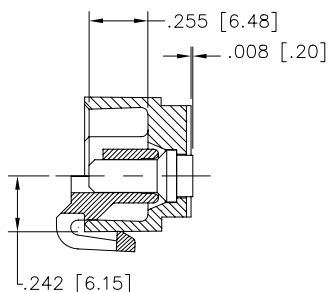


|                           |          |                |          |                       |                                       |                                  |                                                                                                     |                                                     |                               |  |
|---------------------------|----------|----------------|----------|-----------------------|---------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|--|
| 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                                               |                               |  |
| E                         | v92856   | HTB            |          | 8/30/99               | angles                                | linear                           | .XX ±.01/.3                                                                                         | 4 ROW VERTICAL HEADER<br>PRESS FIT, 0 G. P., 6 P.P. |                               |  |
| F                         | v00273   | JWS            |          | 2/01/00               |                                       |                                  | .XXX ±.005/.13                                                                                      |                                                     |                               |  |
| G                         | v05-0418 | DAI            |          | 5/12/05               |                                       |                                  | .XXXX ±.0020/.051                                                                                   |                                                     |                               |  |
| H                         | v05-0626 | HTB            | 7/06/05  | dr                    | D. SHEAFFER                           | 5/07/92                          |                |                                                     |                               |  |
| J                         | v05-0857 | DCH            | 9/06/05  | enr                   | S. CLARK                              | 5/11/92                          |                                                                                                     |                                                     |                               |  |
| K                         | v05-1048 | DAI            | 11/15/05 | chr                   | S. CLARK                              | 5/11/92                          |                                                                                                     |                                                     |                               |  |
| L                         | M06-0261 | AEA            | 7/08/06  | appd                  | S. CLARK                              | 5/11/92                          |                                                                                                     |                                                     |                               |  |
| sheet index               |          | revision sheet |          | L                     | L                                     | L                                | L                                                                                                   | L                                                   | dwg no<br>50514               |  |
|                           |          |                |          | 1                     | 2                                     | 3                                | 4                                                                                                   | 5                                                   | sheet 1 of 5 size<br>A3       |  |
|                           |          |                |          |                       |                                       |                                  |                                                                                                     |                                                     | type Product Customer Drawing |  |

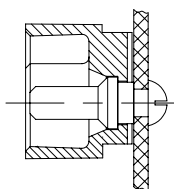
PRODUCT NUMBER  
SEE TABLE



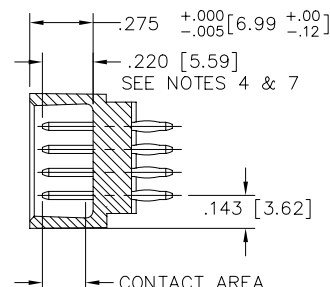
SECTION U-U



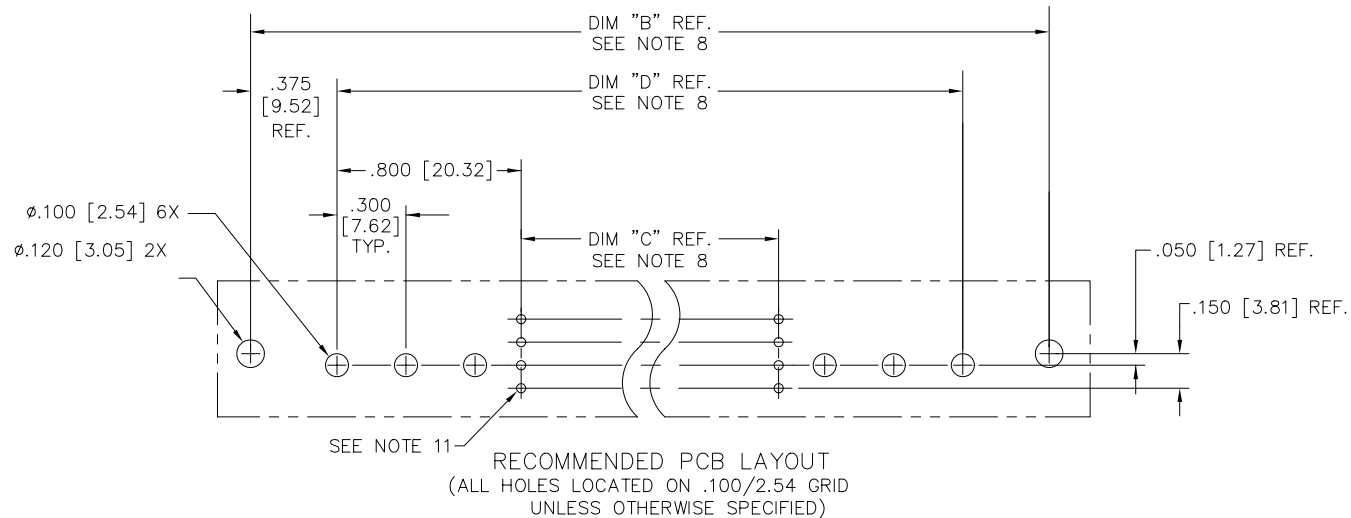
SECTION P-P  
(W/LOCATOR,  
SEE DETAIL P)



DETAIL P  
(INSTALLED IN  
PCB, SEE NOTE 6)



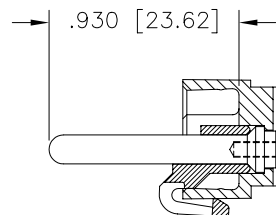
SECTION X-X



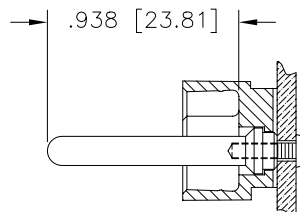
|                           |                |                       |                                  |                                                                           |                                                     |
|---------------------------|----------------|-----------------------|----------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------|
| 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                       | ecm no         | dr                    | date                             | tolerances unless otherwise specified                                     | title                                               |
| L                         |                |                       |                                  | angles linear<br>.XX ±.01/.3<br>.XXX ±.005/.13<br>0°±2° .XXXX ±.0020/.051 | 4 ROW VERTICAL HEADER<br>PRESS FIT, 0 G. P., 6 P.P. |
|                           |                |                       |                                  | dr D. SHEAFFER 5/07/92                                                    | dwg no 50514 sheet 2 of 5 size A3                   |
|                           |                |                       |                                  | enr S. CLARK 5/11/92                                                      |                                                     |
|                           |                |                       |                                  | chr S. CLARK 5/11/92                                                      |                                                     |
|                           |                |                       |                                  | appd S. CLARK 5/11/92                                                     |                                                     |
| sheet index               | revision sheet |                       |                                  |                                                                           | type Product Customer Drawing                       |

Diagram illustrating the dimensions for Section V-V:

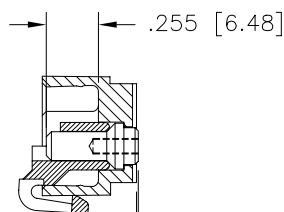
- MATING LENGTH**: SEE TABLE BELOW
- TAIL LENGTH**: SEE TABLE BELOW



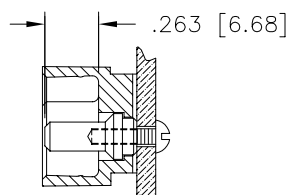
SECTION Z-Z



SECTION Z-Z  
(INSTALLED)



SECTION W-W



SECTION W-W  
(INSTALLED)

NOTES: FOR LOAD PATTERN 50514-XX001, 50514-XX001LF,  
50514-XX001B AND 50514-X001BLF ONLY:

1. (58) POSITIONS SHOWN BLANK ARE LOADED WITH ITEM "1", FROM TABLE BELOW.
2. COLUMN 1 ROW A IS DESIGNATED AS PIN 1. VIEWED FROM THE MATING FACE.

③ SHIPPING INSTRUCTIONS:

X PC(S) OF 50514-XX001  
PACKAGED PER BUS-14-143 AND  
SPECIAL PACKAGING REQUIREMENTS:

2X PCS OF 77549-004  
PLASTIC ORIENTATION KEY-  
TOTAL QTY. BAGGED SEPARATELY  
W/ALL OF THE ABOVE TO BE  
PACKED IN THE SAME BOX.

4. POWER PIN LOCATOR (REF. 50234) TO BE REMOVED AFTER BOARD INSTALLATION.

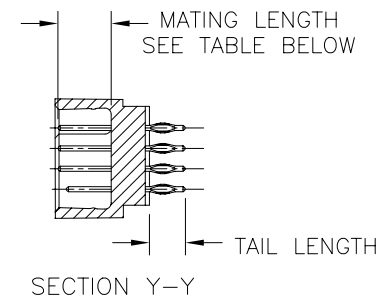
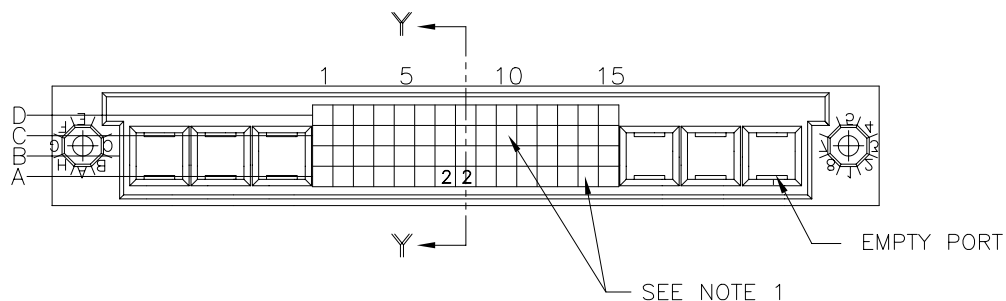
## SELECT LOAD

LOAD PATTERN FOR 50514-XX001, -XX001LF,  
50514-XX001B, AND -XX001BLF

| ITEM | SIZE-4X15+6P | NUMBER OF POSITIONS-60S+6P | POSITIONS LOADED-60S+6P    |             |
|------|--------------|----------------------------|----------------------------|-------------|
|      | QTY.         | PART NAME                  | MATING LENGTH              | TAIL LENGTH |
| 1    | 58           | SIGNAL PIN                 | .260/6.6                   | .250/6.35   |
| 2    | 2            | SIGNAL PIN                 | .220/5.59                  | .250/6.35   |
| 3    | 5            | POWER PIN                  | .263/6.68                  | N/A         |
| 4    | 1            | POWER PIN                  | .938/23.83                 | N/A         |
| 5    | 2            | LOCATOR                    | NOT-ASSEMBLED - SEE NOTE 3 |             |

|                           |  |  |  |                                       |  |                                                    |  |                                                                                                     |  |                                                              |  |  |  |
|---------------------------|--|--|--|---------------------------------------|--|----------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|--|--|
| 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 |  |                                                    |  | INCH/MM<br>    |  | title<br>4 ROW VERTICAL HEADER<br>PRESS FIT, 0 G. P., 6 P.P. |  |  |  |
| L                         |  |  |  | angles<br>linear                      |  | .xx ±.01/.3<br>.xxx ±.005/.13<br>.0xxx ±.0020/.051 |  |                                                                                                     |  |                                                              |  |  |  |
|                           |  |  |  | dr                                    |  | D. SHEAFFER                                        |  | 5/07/92                                                                                             |  | dwg no                                                       |  |  |  |
|                           |  |  |  | enrg                                  |  | S. CLARK                                           |  | 5/11/92                                                                                             |  | sheet 3 of 5                                                 |  |  |  |
|                           |  |  |  | chr                                   |  | S. CLARK                                           |  | 5/11/92                                                                                             |  | 50514                                                        |  |  |  |
|                           |  |  |  | appd                                  |  | S. CLARK                                           |  | 5/11/92                                                                                             |  | A.                                                           |  |  |  |
| sheet index               |  |  |  | revision                              |  |                                                    |  |                                                                                                     |  | type Product Customer Drawing                                |  |  |  |
| sheet                     |  |  |  |                                       |  |                                                    |  |                                                                                                     |  |                                                              |  |  |  |

| PRODUCT NUMBER |
|----------------|
| 50514-XX008    |
| 50514-XX008LF  |



NOTES FOR LOAD PATTERN 50514-XX008 AND 50514-XX008LF ONLY:

- (58) POSITIONS SHOWN BLANK ARE LOADED WITH ITEM "1", EXCEPT WHERE NOTED.
- COLUMN 1 ROW A IS DESIGNATED AS PIN 1, VIEWED FROM THE MATING FACE.

## SELECT LOAD

LOAD PATTERN FOR 50514-XX008  
AND 50514-XX008LF

| ITEM | SIZE-4X15+6P | NUMBER OF POSITIONS-60S+6P | POSITIONS LOADED-60S+0P |             |
|------|--------------|----------------------------|-------------------------|-------------|
|      | QTY.         | PART NAME                  | MATING LENGTH           | TAIL LENGTH |
| 1    | 58           | SIGNAL PIN                 | .260/6.60               | .250/6.35   |
| 2    | 2            | SIGNAL PIN                 | .220/5.59               | .250/6.35   |

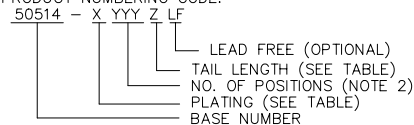
|                           |                |    |    |                       |                                       |                                                    |                                                     |
|---------------------------|----------------|----|----|-----------------------|---------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| mat'l. code<br>SEE NOTE 3 |                |    |    | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101      | projection<br>INCH/MM                              | product family<br>HPC                               |
| ltr                       | ec             | no | dr | date                  | tolerances unless otherwise specified |                                                    | title                                               |
| L                         |                |    |    |                       | angles linear                         | .XX ±.01/.3<br>.XXX ±.005/.13<br>.XXXX ±.0020/.051 | 4 ROW VERTICAL HEADER<br>PRESS FIT, 0 G. P., 6 P.P. |
|                           |                |    |    |                       | dr                                    | D. SHEAFFER 5/07/92                                | dwg no                                              |
|                           |                |    |    |                       | enfr                                  | S. CLARK 5/11/92                                   | sheet 4 of 5 size                                   |
|                           |                |    |    |                       | chr                                   | S. CLARK 5/11/92                                   | 50514 A3                                            |
|                           |                |    |    |                       | appd                                  | S. CLARK 5/11/92                                   | type Product Customer Drawing                       |
| sheet index               | revision sheet |    |    |                       |                                       |                                                    |                                                     |

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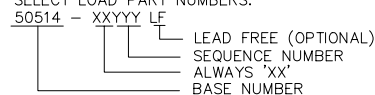
| PRODUCT NUMBER<br>SEE NOTE 1 & 9 | NUMBER<br>OF POSITIONS<br>SEE NOTE 2 | TAIL LENGTH<br>REF. | CONTACT<br>PLATING |
|----------------------------------|--------------------------------------|---------------------|--------------------|
| 50514-1YYYA                      | YYY                                  | .177/4.50           | 30u"/0.76μ Au      |
| 50514-1YYYG                      | YYY                                  | .250/6.35           | 30u"/0.76μ Au      |
| 50514-5YYYA                      | YYY                                  | .177/4.50           | 30u"/0.76μ GXT     |
| 50514-5YYYALF                    | YYY                                  | .177/4.50           | 30u"/0.76μ GXT     |
| 50514-5YYYG                      | YYY                                  | .250/6.35           | 30u"/0.76μ GXT     |
| 50514-5YYYGLF                    | YYY                                  | .250/6.35           | 30u"/0.76μ GXT     |
| 50514-XX001                      | SEE SHEET 3                          | SEE SHEET 3         | 30u"/0.76μ Au      |
| 50514-XX001LF                    | SEE SHEET 3                          | SEE SHEET 3         | 30u"/0.76μ GXT     |
| 50514-XX001B                     | SEE SHEET 3                          | SEE SHEET 3         | 30u"/0.76μ Au      |
| 50514-XX001BLF                   | SEE SHEET 3                          | SEE SHEET 3         | 30u"/0.76μ GXT     |
| 50514-XX008                      | SEE SHEET 4                          | SEE SHEET 4         | 30u"/0.76μ Au      |
| 50514-XX008LF                    | SEE SHEET 4                          | SEE SHEET 4         | 30u"/0.76μ GXT     |

NOTES:

- ①. PRODUCT NUMBERING CODE:



PRODUCT NUMBERING CODE FOR  
SELECT LOAD PART NUMBERS:



- 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:  
HOUSING: GLASS FILLED AND MINERAL FILLED HIGH TEMP THERMOPLASTIC,  
FLAME RETARDANT PER UL-94V-0  
COLOR: BLACK  
TERMINALS: PHOS BRONZE
- ④. TO ASSURE PROPER INSTALLATION, TOOLING AS SPECIFIED IN INSTRUCTION MANUAL 155918-001 MUST BE USED. PIN MATING LENGTH WILL BE  $\pm 0.002(0.05)$  AFTER INSTALLATION.
- ⑤. MANUFACTURERS NAME, PART NUMBER, AND LOT CODE TO APPEAR ON THIS SURFACE PER BUS-12-108.
- ⑥. POWER PIN LOCATOR (REF 50234) IS TO BE REMOVED AFTER INSTALLATION.
- ⑦. REFER TO 50804 FOR F.M.L.B. OPTIONS AND WORKSHEETS.
- ⑧. LENGTH CALCULATIONS:  
DIM "A" CALCULATION =  $.100(2.54) \times \text{NO. OF COLUMNS} + 2.55 (64.8)$   
DIM "B" CALCULATION =  $.100(2.54) \times \text{NO. OF COLUMNS} + 2.250 (57.15)$   
DIM "C" CALCULATION =  $.100(2.54) \times \text{NO. OF COLUMNS} - .100 (2.54)$   
DIM "D" CALCULATION =  $.100(2.54) \times \text{NO. OF COLUMNS} + 1.500 (38.10)$

- ⑨. THIS PRODUCT (WITH "LF" SUFFIX) MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
10. THIS HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- ⑪. PCB HOLES FOR PRESS FIT TERMINALS SHOULD BE DRILLED TO  $.0453(1.151)$  DIA. AND PLATED WITH  $.0003(.007)$  MIN Sn OR SnPb OVER  $.001(.03)$  TO  $.003(0.76)$  Cu PLATING TO ACHIEVE A  $.040 \pm .003(1.02 \pm .08)$  FINISHED HOLE.

|                           |          |       |                       |                                  |                                       |                               |
|---------------------------|----------|-------|-----------------------|----------------------------------|---------------------------------------|-------------------------------|
| 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                         |
| L                         |          |       |                       |                                  | linear .XX $\pm .01/.3$               | 4 ROW VERTICAL HEADER         |
|                           |          |       |                       |                                  | linear .XXX $\pm .005/.13$            | PRESS FIT, 0 G. P., 6 P.P.    |
|                           |          |       |                       |                                  | linear .XXX $\pm .0020/.051$          |                               |
|                           |          |       |                       |                                  | scale 1:1                             |                               |
|                           |          |       | dr                    | D. SHEAFFER 5/07/92              |                                       | dwg no                        |
|                           |          |       | enrg                  | S. CLARK 5/11/92                 |                                       | sheet 5 of 5 size             |
|                           |          |       | chr                   | S. CLARK 5/11/92                 |                                       | 50514 A3                      |
|                           |          |       | appd                  | S. CLARK 5/11/92                 |                                       | type Product Customer Drawing |
| sheet index               | revision | sheet |                       |                                  |                                       |                               |

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