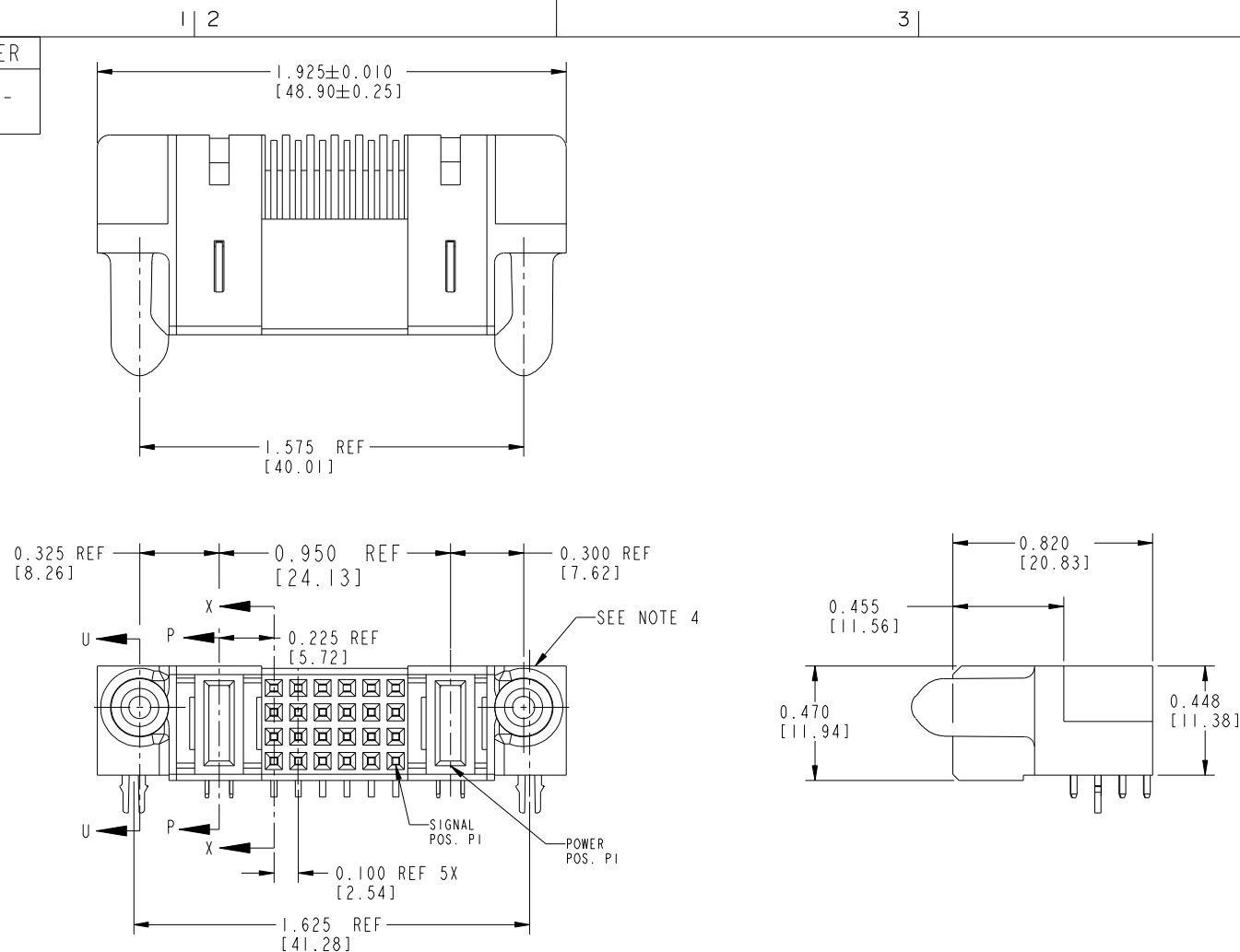




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PRODUCT NUMBER  
51416-00X---  
NOTE ③



THIS FILE WAS ORIGINALLY CREATED IN THE PRO ENGINEER ENVIRONMENT AND ANY FUTURE REVISIONS TO THIS FILE MUST BE MADE IN THE PRO ENGINEER ENVIRONMENT

| mat'l code  |           |                |          | SEE NOTES |          | tolerances unless otherwise specified |   | CUSTOMER   |   | FCI                                              |  |
|-------------|-----------|----------------|----------|-----------|----------|---------------------------------------|---|------------|---|--------------------------------------------------|--|
| ltr         | ecn no.   | dr             | date     |           |          |                                       |   | COPY       |   | www.fciconnect.com                               |  |
| A           | V90563    | CHB            | 02-18-99 | linear    |          | .XX $\pm$ .01 / .X $\pm$ .3           |   | projection |   | title IP + 24S + 1P<br>RIGHT ANGLE SOLDER RECEPT |  |
| B           | V90919    | SAR            | 04-14-99 |           |          | .XXX $\pm$ .005 / .XX $\pm$ .13       |   |            |   | product family PwrBlade                          |  |
| C           | V94029    | CHB            | 10-08-99 | angles    |          | .XXX $\pm$ .0020 / .XXX $\pm$ .051    |   |            |   | code 213                                         |  |
| D           | V01376    | EKK            | 06-08-00 | dr        | LEVEL 4  | 01-12-99                              |   |            |   | size dwg no 51416                                |  |
| E           | DG05-0049 | SW             | 03-17-05 | enrg      | J. BROWN | 01-12-99                              |   |            |   | sheet 1 of 5                                     |  |
| F           | DG05-0230 | LH             | 07-19-05 | chr       | J. BROWN | 01-12-99                              |   |            |   |                                                  |  |
| G           | DG08-0239 | JC             | 09/12/08 | appd      | J. BROWN | 01-12-99                              |   |            |   |                                                  |  |
| sheet index |           | revision sheet |          | G         | G        | G                                     | G | G          | G |                                                  |  |
|             |           |                |          | 1         | 2        | 3                                     | 4 | 5          |   |                                                  |  |

Pro/E

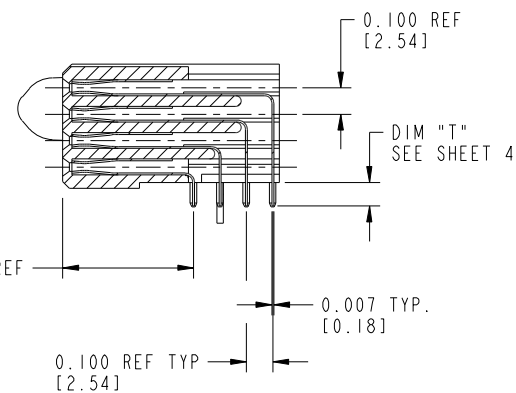
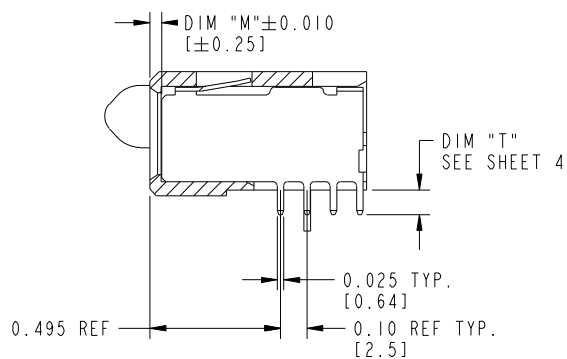
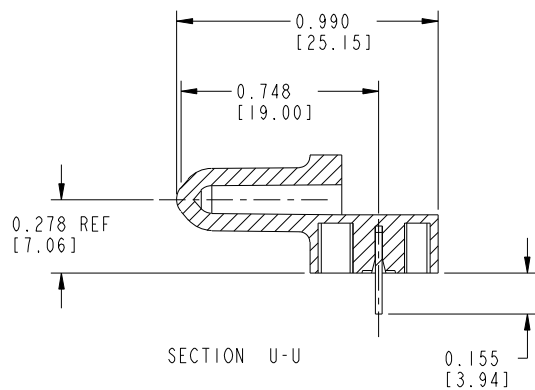
cage code 22526



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PRODUCT NUMBER  
51416-00X  
NOTE (3)



| mat'l code  |                |    |      | SEE NOTES |          | tolerances unless otherwise specified |  | CUSTOMER   |  | FCI                       |           |
|-------------|----------------|----|------|-----------|----------|---------------------------------------|--|------------|--|---------------------------|-----------|
| litr        | ecr no.        | dr | date | linear    |          | .XX ± .01 / .X ± .3                   |  | COPY       |  | www.fciconnect.com        |           |
| G           |                |    |      |           |          | .XXX ± .005 / .XX ± .13               |  | projection |  | title IP + 24S + 1P       |           |
|             |                |    |      |           |          | .XXXX ± .0020 / .XXX ± .051           |  |            |  | RIGHT ANGLE SOLDER RECEPT |           |
|             |                |    |      | angles    |          | 0° ± 2°                               |  | INCH/MM    |  | product family            | PwrBlade  |
|             |                |    |      | dr        | LEVEL 4  | 01-12-99                              |  | scale      |  | size                      | dwg no    |
|             |                |    |      | enr       | J. BROWN | 01-12-99                              |  | 3:2        |  | A                         | 51416-001 |
|             |                |    |      | chr       | J. BROWN | 01-12-99                              |  |            |  |                           | sheet     |
|             |                |    |      | appd      | J. BROWN | 01-12-99                              |  |            |  |                           | 2         |
| sheet index | revision sheet |    |      |           |          |                                       |  |            |  |                           |           |
|             |                |    |      |           |          |                                       |  |            |  |                           |           |

Pro/E

cage code 22526



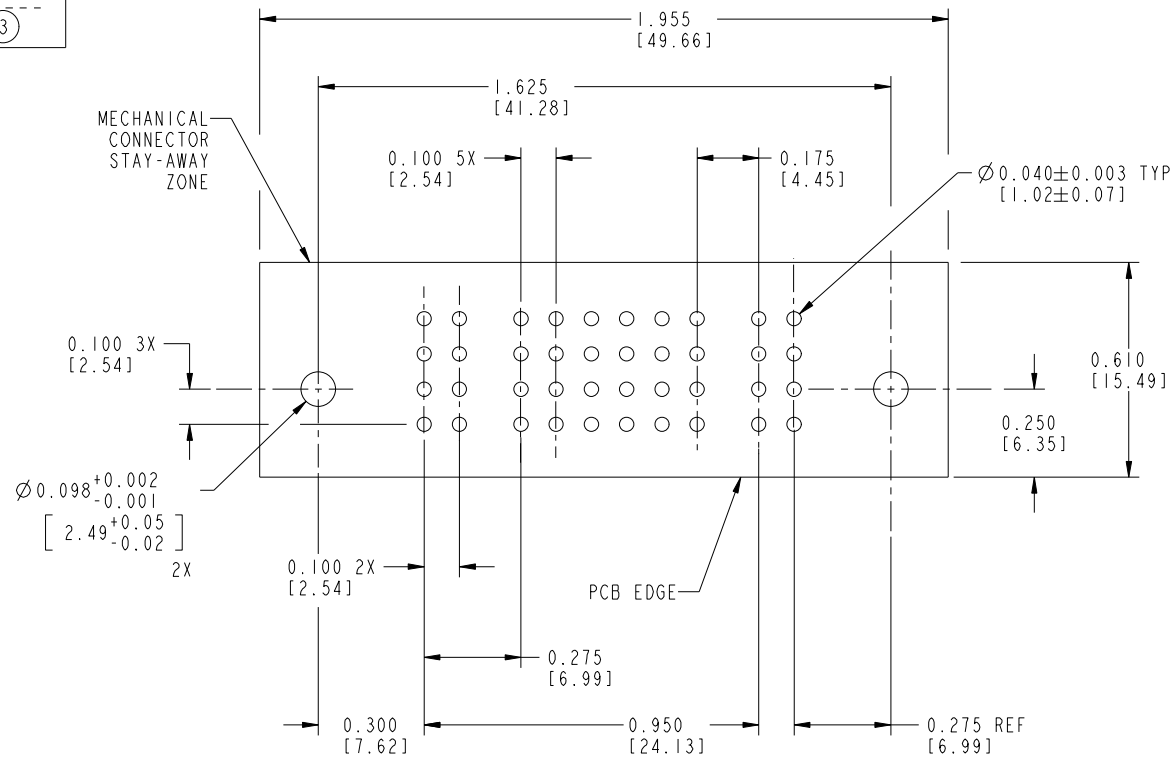
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B

A

PRODUCT NUMBER  
51416-00X--  
NOTE ③



RECOMMENDED PCB LAYOUT

| mat'l code  |                |    |      | SEE NOTES |          | tolerances unless otherwise specified |  | CUSTOMER COPY |     | FCI                                              |          |
|-------------|----------------|----|------|-----------|----------|---------------------------------------|--|---------------|-----|--------------------------------------------------|----------|
| ltr         | ecn no.        | dr | date |           |          | .XX ±.01/.X ±.3                       |  |               |     | www.fciconnect.com                               |          |
| G           |                |    |      |           |          | .XXX ±.005/.XX ±.13                   |  | projection    |     | title IP + 24S + IP<br>RIGHT ANGLE SOLDER RECEPT |          |
|             |                |    |      |           |          | .XXXX ±.0020/.XXX ±.051               |  |               |     |                                                  |          |
|             |                |    |      |           | angles   | 0° ± 2°                               |  |               |     | product family                                   | PwrBlade |
|             |                |    |      | dr        | LEVEL 4  | 01-12-99                              |  | scale         | 3:2 | size                                             | dwg no   |
|             |                |    |      | enr       | J. BROWN | 01-12-99                              |  |               |     |                                                  |          |
|             |                |    |      | chr       | J. BROWN | 01-12-99                              |  |               |     |                                                  |          |
|             |                |    |      | appd      | J. BROWN | 01-12-99                              |  |               |     |                                                  |          |
| sheet index | revision sheet |    |      |           |          |                                       |  |               |     |                                                  |          |

B

Pro/E

cage code 22526



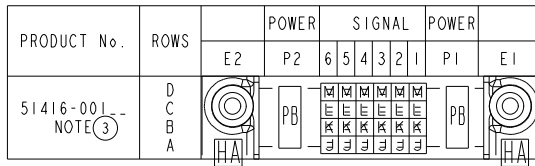
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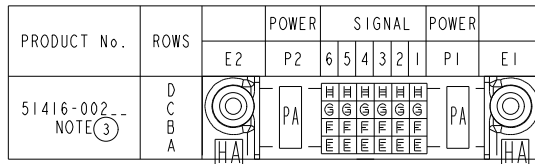
A

B

| ITEM NO. | QTY | DIM "M"<br>MATING<br>LENGTH<br>±.010 |        | DIM "T"<br>TAIL<br>LENGTH<br>+.005- [.13]-.010 [.25] |        | CONTACT TYPE |
|----------|-----|--------------------------------------|--------|------------------------------------------------------|--------|--------------|
|          |     |                                      |        |                                                      |        |              |
| PB       | 2   | 0.042                                | [1.07] | 0.090                                                | [2.29] | POWER        |
| J        | 6   | N/A                                  | [N/A]  | 0.090                                                | [2.29] | SIGNAL       |
| K        | 6   | N/A                                  | [N/A]  | 0.090                                                | [2.29] | SIGNAL       |
| L        | 6   | N/A                                  | [N/A]  | 0.090                                                | [2.29] | SIGNAL       |
| M        | 6   | N/A                                  | [N/A]  | 0.090                                                | [2.29] | SIGNAL       |
| HA       | 2   | N/A                                  | [N/A]  | N/A                                                  | [N/A]  | HOLD-DOWN    |



| ITEM NO. | QTY | DIM "M"<br>MATING<br>LENGTH<br>±.010 [.25] |        | DIM "T"<br>TAIL<br>LENGTH<br>±.010 [.25] |        | CONTACT TYPE |
|----------|-----|--------------------------------------------|--------|------------------------------------------|--------|--------------|
|          |     |                                            |        |                                          |        |              |
| PA       | 2   | 0.042                                      | [1.07] | 0.135                                    | [3.43] | POWER        |
| E        | 6   | N/A                                        | [N/A]  | 0.135                                    | [3.43] | SIGNAL       |
| F        | 6   | N/A                                        | [N/A]  | 0.135                                    | [3.43] | SIGNAL       |
| G        | 6   | N/A                                        | [N/A]  | 0.135                                    | [3.43] | SIGNAL       |
| H        | 6   | N/A                                        | [N/A]  | 0.135                                    | [3.43] | SIGNAL       |
| HA       | 2   | N/A                                        | [N/A]  | N/A                                      | [N/A]  | HOLD-DOWN    |



|             |                |    |      |           |                                                |                                       |            |               |                                                     |                    |          |
|-------------|----------------|----|------|-----------|------------------------------------------------|---------------------------------------|------------|---------------|-----------------------------------------------------|--------------------|----------|
| mat'l code  |                |    |      | SEE NOTES |                                                | tolerances unless otherwise specified |            | CUSTOMER COPY |                                                     | www.fciconnect.com |          |
| ltr         | ecr no.        | dr | date | linear    | .XX ±.01/.X ±.3                                |                                       | projection |               | title<br>IP + 24S + 1P<br>RIGHT ANGLE SOLDER RECEPT |                    |          |
| G           |                |    |      |           | .XXX ±.005/.XX ±.13<br>.XXXX ±.0020/.XXX ±.051 |                                       |            |               |                                                     |                    |          |
|             |                |    |      | angles    | 0° ± 2°                                        |                                       | INCH/MM    |               | product family PwrBlade                             |                    | code 213 |
|             |                |    |      | dr        | LEVEL 4                                        | 01-12-99                              | size       |               | dwg no                                              | sheet 4            |          |
|             |                |    |      | enrg      | J. BROWN                                       | 01-12-99                              | scale 1:1  |               | A                                                   |                    |          |
|             |                |    |      | chr       | J. BROWN                                       | 01-12-99                              |            |               | 51416                                               |                    |          |
|             |                |    |      | appd      | J. BROWN                                       | 01-12-99                              |            |               |                                                     |                    |          |
| sheet index | revision sheet |    |      |           |                                                |                                       |            |               |                                                     |                    |          |

A

B

1 | 2

3 |

4

1 | 2

Pro/E

3 |

cage code 22526

4

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|                         |
|-------------------------|
| PRODUCT NUMBER          |
| 51416-00X---<br>NOTE(3) |

NOTES:

1. DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH  
ASME Y14.5M, 1994 UNLESS OTHERWISE SPECIFIED.

CONNECTOR NOTES:

2. HOUSING MATERIAL: UL 94 V-0 GLASS FILLED  
HIGH-TEMP THERMOPLASTIC  
POWER CONTACT MATERIAL: COPPER ALLOY  
SIGNAL PIN MATERIAL: COPPER ALLOY
3. PLATING(51416-00X STAND FOR 51416-001 AND 51416-002)

△ SEE ITEM 5 & 6 IN PRINT 10064183 FOR PLATING SPEC OF 51416-00X  
AND 51416-00XLF RESPECTIVELY

4. MANUFACTURER'S NAME, P/N, AND DATE CODE TO APPEAR ON THIS SURFACE.

5. PRODUCT SPECIFICATION GS-12-149.  
APPLICATION SPECIFICATION BUS-20-067.

PCB NOTES:

6. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.
7. MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.
8.  $\varnothing.0453\pm0.0010$  [ $1.151\pm0.025$ ] DRILLED HOLES PLATED WITH  
.0003 [0.008] MIN SnPb OVER .001 [0.03]  
TO .003 [0.08] Cu PLATING TO ACHIEVE  
 $\varnothing.040\pm.003$  [ $1.02\pm.07$ ] HOLE.
9. "DIM XXX" TO BE DETERMINED BY THE CUSTOMER.
10. CONNECTOR KEEP-OUT ZONE.
11. A △ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE  
WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

THIS FILE WAS ORIGINALLY CREATED IN THE PRO  
ENGINEER ENVIRONMENT AND ANY FUTURE REVISIONS TO  
THIS FILE MUST BE MADE IN THE PRO ENGINEER  
ENVIRONMENT

|                |         |                   |      |           |  |                                          |  |            |  |                           |  |                    |  |
|----------------|---------|-------------------|------|-----------|--|------------------------------------------|--|------------|--|---------------------------|--|--------------------|--|
| mat'l code     |         |                   |      | SEE NOTES |  | tolerances unless<br>otherwise specified |  | CUSTOMER   |  | FCI                       |  | www.fciconnect.com |  |
| ltr            | ecr no. | dr                | date |           |  | .XX±.01/0.X±0.3                          |  | COPY       |  |                           |  |                    |  |
| G              |         |                   |      | linear    |  | .XXX±.005/0.XX±0.13                      |  | projection |  | title                     |  | IP + 24S + IP      |  |
|                |         |                   |      | angles    |  | .XXX±.0020/0.XXX±0.051                   |  |            |  | RIGHT ANGLE SOLDER RECEPT |  |                    |  |
|                |         |                   |      | dr        |  | 0°±2°                                    |  | INCH/MM    |  | product family            |  | PwrBlade           |  |
|                |         |                   |      | enrg      |  | LEVEL 4 01-12-99                         |  | scale      |  | size                      |  | 213                |  |
|                |         |                   |      | chr       |  | J. BROWN 01-12-99                        |  | 3:2        |  | dwg no                    |  | sheet              |  |
|                |         |                   |      | appd      |  | J. BROWN 01-12-99                        |  |            |  | 51416                     |  | 5                  |  |
| sheet<br>index |         | revision<br>sheet |      |           |  |                                          |  |            |  |                           |  |                    |  |

cage code 22526