

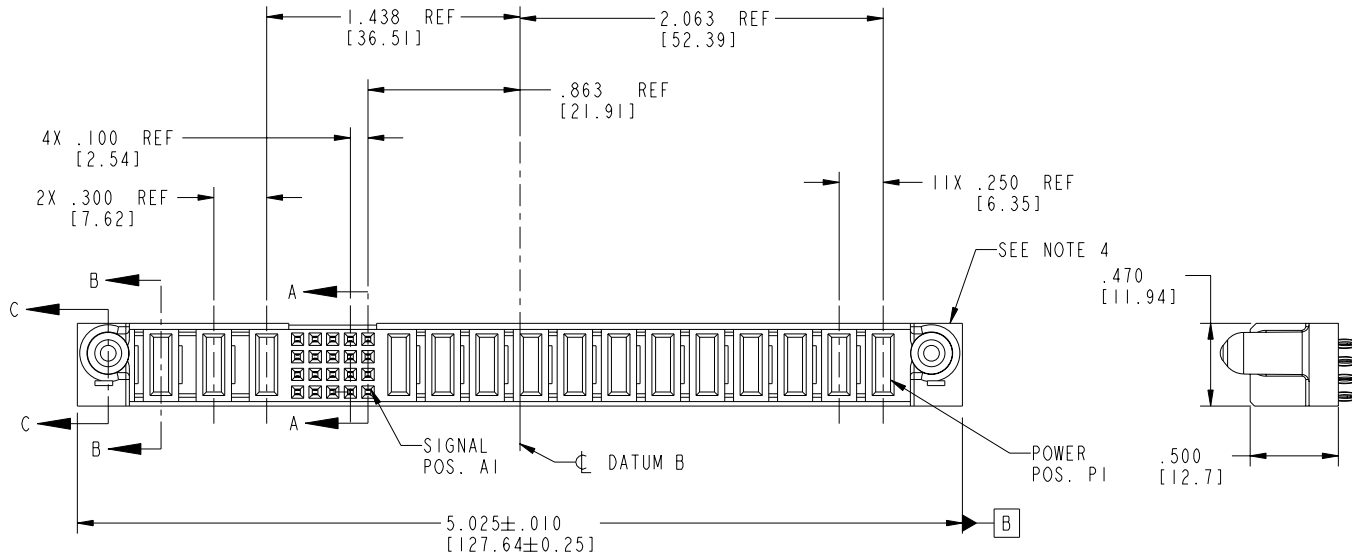
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B

| CODE | DIM "M"<br>MATING<br>LENGTH | CONTACT<br>TYPE |
|------|-----------------------------|-----------------|
| F    | N/A [N/A]                   | SIGNAL          |
| PC   | .042 [1.07]                 | POWER           |
| PF   | .092 [2.34]                 | POWER           |



| PRODUCT NO.           | ROWS             | POWER |     |     | SIGNAL |   |   |   |   |   |     | POWER |     |    |    |    |    |    |    |    |    |    | E1 |
|-----------------------|------------------|-------|-----|-----|--------|---|---|---|---|---|-----|-------|-----|----|----|----|----|----|----|----|----|----|----|
|                       |                  | E2    | P15 | P14 | P13    | 5 | 4 | 3 | 2 | 1 | P12 | P11   | P10 | P9 | P8 | P7 | P6 | P5 | P4 | P3 | P2 | P1 |    |
| 51940-056--<br>NOTE:3 | D<br>C<br>B<br>A |       | PF  | PF  | PC     | F | F | F | F | F | PF  | PF    | PF  | PF | PF | PF | PF | PF | PF | PF | PF | PF |    |

1 | 2

|             |  |           |  |            |  |          |  |                                       |  |                       |  |            |  |         |  |                                                                    |  |                       |  |                        |  |
|-------------|--|-----------|--|------------|--|----------|--|---------------------------------------|--|-----------------------|--|------------|--|---------|--|--------------------------------------------------------------------|--|-----------------------|--|------------------------|--|
| mat'l code  |  |           |  | SEE NOTE 2 |  |          |  | tolerances unless otherwise specified |  |                       |  | CUSTOMER   |  |         |  | <div><div>A</div><div>FCI</div><div>www.fciconnect.com</div></div> |  |                       |  |                        |  |
| ltr         |  | ec'n no.  |  | dr         |  | date     |  | linear                                |  | .XX±.01/0.X±0.3       |  | projection |  |         |  | title<br>12P + 20S + 3ACP<br>VERTICAL PRESS-FIT RECEPT             |  |                       |  |                        |  |
| A           |  | V03-0959  |  | TAB        |  | 08/28/03 |  |                                       |  | .XXX±.005/0.XX±0.13   |  |            |  |         |  |                                                                    |  |                       |  | .XXX±.0020/0.XXX±0.051 |  |
| B           |  | DG05-0490 |  | CS         |  | 11/21/05 |  | angles                                |  | 0°±2°                 |  |            |  | INCH/MM |  | product family<br>PwrBlade                                         |  |                       |  |                        |  |
|             |  |           |  |            |  |          |  |                                       |  |                       |  |            |  |         |  |                                                                    |  |                       |  |                        |  |
|             |  |           |  |            |  |          |  | dr                                    |  | T. BRUNGARD 08/28/03  |  | scale      |  | 1:1     |  | product family<br>size                                             |  | dwg no<br>A 51940-056 |  | code<br>213            |  |
|             |  |           |  |            |  |          |  | engr                                  |  | M. MOSTOLLER 08/28/03 |  |            |  |         |  |                                                                    |  |                       |  |                        |  |
|             |  |           |  |            |  |          |  | chr                                   |  | M. MOSTOLLER 08/28/03 |  |            |  |         |  |                                                                    |  |                       |  | sheet<br>1 of 4        |  |
|             |  |           |  |            |  |          |  | appd                                  |  | M. MOSTOLLER 08/28/03 |  |            |  |         |  |                                                                    |  |                       |  |                        |  |
| sheet index |  | revision  |  | B          |  | B        |  | B                                     |  | B                     |  |            |  |         |  |                                                                    |  |                       |  |                        |  |
|             |  | sheet     |  | 1          |  | 2        |  | 3                                     |  | 4                     |  |            |  |         |  |                                                                    |  |                       |  |                        |  |

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**PDM: Rev:B**

STATUS: **Released**

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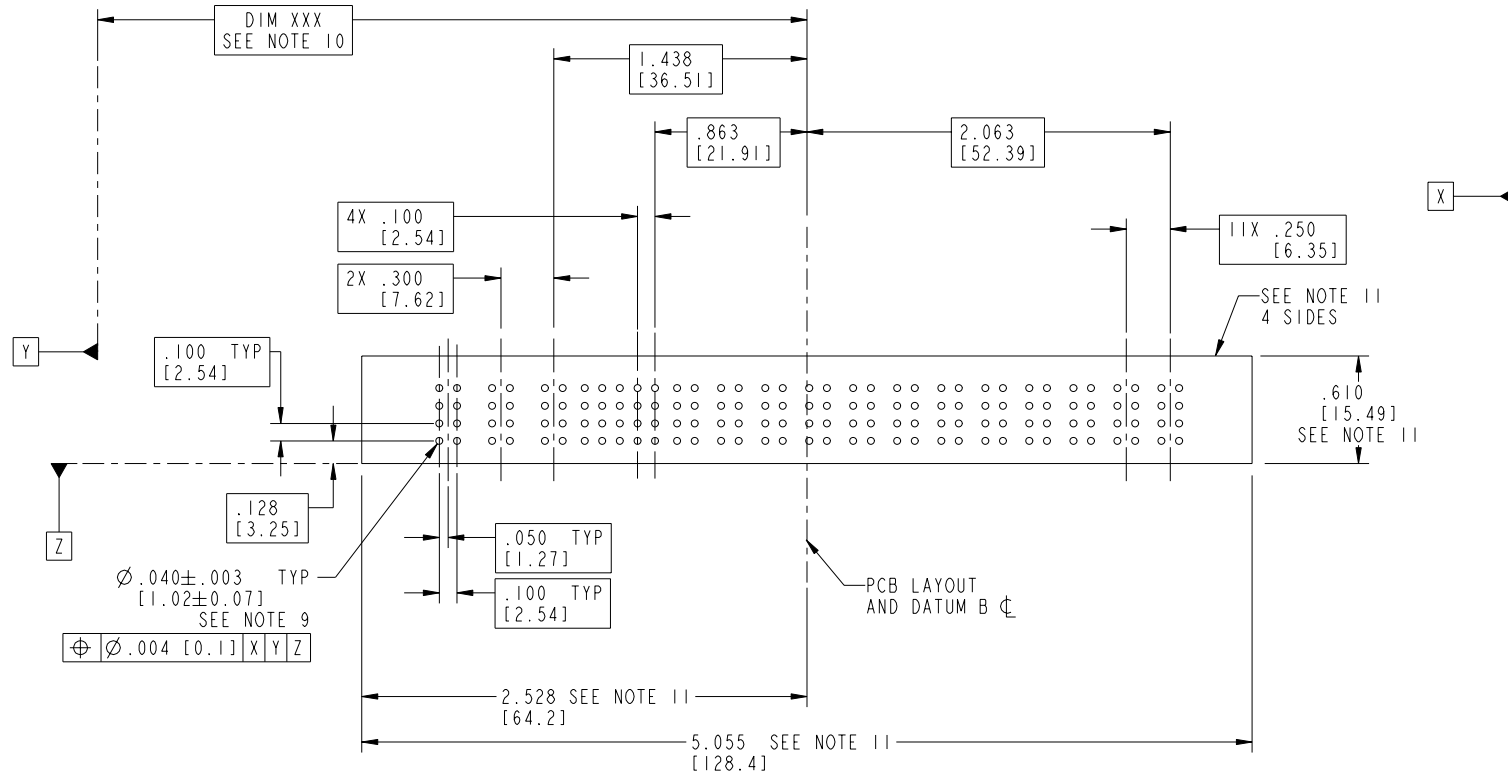
|           |       |
|-----------|-------|
| cage code | 22526 |
|-----------|-------|

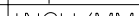
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PRODUCT NUMBER  
51940-056\_\_  
NOTE: 3



|                       |         |          |                       |                                       |                         |                                                                                       |  |                                                                    |  |
|-----------------------|---------|----------|-----------------------|---------------------------------------|-------------------------|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------|--|
| mat'l code SEE NOTE 2 |         |          |                       | tolerances unless otherwise specified |                         | CUSTOMER                                                                              |  | <div><div>A</div><div>FCI</div><div>www.fciconnect.com</div></div> |  |
| ltr                   | ecn no. | dr       | date                  | linear                                | .XX±.01/0.X±0.3         | COPY                                                                                  |  | title<br>12P + 20S + 3ACP<br>VERTICAL PRESS-FIT RECEPT             |  |
| B                     |         |          |                       |                                       | .XXX±.005/0.XX±0.13     | projection                                                                            |  |                                                                    |  |
|                       |         |          |                       |                                       | .XXXX±.0020/0.XXX±0.051 |  |  |                                                                    |  |
|                       |         |          |                       | angles                                | 0°±2°                   |  |  | product family<br>PwrBlade                                         |  |
|                       |         | dr       | T. BRUNGARD 08/28/03  |                                       |                         | code                                                                                  |  |                                                                    |  |
|                       |         | engr     | M. MOSTOLLER 08/28/03 |                                       |                         | size                                                                                  |  | dwg no                                                             |  |
|                       |         | chr      | M. MOSTOLLER 08/28/03 |                                       |                         | scale                                                                                 |  | A 51940-056                                                        |  |
|                       |         | appd     | M. MOSTOLLER 08/28/03 |                                       |                         | 1:1                                                                                   |  | 213                                                                |  |
| sheet index           |         | revision |                       |                                       |                         |                                                                                       |  | sheet                                                              |  |
|                       |         | sheet    |                       |                                       |                         |                                                                                       |  | 3 of 4                                                             |  |

Pro/E

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# PRODUCT NUMBER

51940-056\_-  
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:  
51940-056 Singal Pin:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA  
AND 100u"/2.54um SnPb PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION.  
Power Pin:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA,  
AND 100u"/2.54um SnPb PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION.

51940-056LF Singal Pin:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA  
AND 78u"/2.00um Sn PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION.  
Power Pin:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA,  
AND 78u"/2.00um Sn PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION.

PART NUMBER 51940-056LF MEETS EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

THE HOUSING WILL WITHSTAND EXPOSURE TO 260° PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A CIRCUIT BOARD.

- 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.

6. PACKAGED IN TRAYS.

## PCB NOTES:

7. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

- ⑧ MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.

- ⑨ Ø.0453±.0010 [1.151±0.025] DRILLED HOLES PLATED WITH  
.0003 [0.008] MIN SnPb OVER .001 [0.03]  
TO .003 [0.08] Cu PLATING TO ACHIEVE  
Ø.040±.003 [1.02±.07] HOLE.

- ⑩ "DIM XXX" TO BE DETERMINED BY THE CUSTOMER.

- ⑪ CONNECTOR KEEP-OUT ZONE.

|             |         |                |      |            |                       |  |  |                                       |  |  |  |            |  |  |  |                                              |  |  |  |
|-------------|---------|----------------|------|------------|-----------------------|--|--|---------------------------------------|--|--|--|------------|--|--|--|----------------------------------------------|--|--|--|
| mat'l code  |         |                |      | SEE NOTE 2 |                       |  |  | tolerances unless otherwise specified |  |  |  | CUSTOMER   |  |  |  | <b>A</b><br><b>FCI</b><br>www.fciconnect.com |  |  |  |
| ltr         | ecn no. | dr             | date | linear     | .XX±.01/0.X±0.3       |  |  | COPY                                  |  |  |  | projection |  |  |  | title 12P + 20S + 3ACP                       |  |  |  |
| B           |         |                |      |            | .XXX±.005/0.XX±0.13   |  |  |                                       |  |  |  |            |  |  |  | VERTICAL PRESS-FIT RECEIPT                   |  |  |  |
|             |         |                |      | angles     | 0°±2°                 |  |  |                                       |  |  |  |            |  |  |  | product family PwrBlade                      |  |  |  |
|             |         |                |      | dr         | T. BRUNGARD 08/28/03  |  |  | INCH/MM                               |  |  |  | size       |  |  |  | code 213                                     |  |  |  |
|             |         |                |      | engr       | M. MOSTOLLER 08/28/03 |  |  | scale                                 |  |  |  | dwg no     |  |  |  | sheet 4 of 4                                 |  |  |  |
|             |         |                |      | chr        | M. MOSTOLLER 08/28/03 |  |  | 1:1                                   |  |  |  | A          |  |  |  | 51940-056                                    |  |  |  |
|             |         |                |      | appd       | M. MOSTOLLER 08/28/03 |  |  |                                       |  |  |  |            |  |  |  |                                              |  |  |  |
| sheet index |         | revision sheet |      |            |                       |  |  |                                       |  |  |  |            |  |  |  |                                              |  |  |  |

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Pro/E

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cage code 22526

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PDM: Rev:B

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