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**A**  
**FCI**

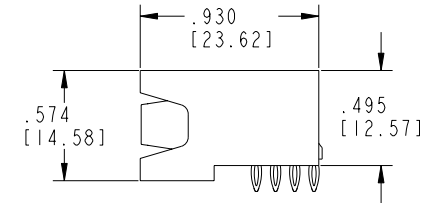
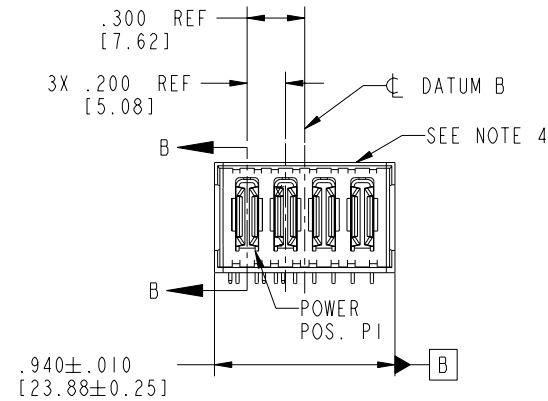
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| PRODUCT NO.           | POWER |    |    |    |
|-----------------------|-------|----|----|----|
|                       | P1    | P2 | P3 | P4 |
| 51939-196--<br>NOTE:3 | PX    | PX | PX | PX |

1 | 2

3 |

4



| CODE | CONTACT TYPE |
|------|--------------|
| PX   | POWER        |

1 | 2

Pro/E

3 |

cage code 22526

4

| mat'l code  |                |       |          | 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        | projection | COPY  | title                                        | 4P       |
| A           | DG05-0158      | GuoJM | 06/13/05 |                                       | .XXX±.005/0.XX±0.13    |            |       |                                              |          |
|             |                |       |          |                                       | .XXX±.0020/0.XXX±0.051 |            |       |                                              |          |
|             |                |       |          | angles                                | 0°±2°                  | INCH/MM    | scale | product family                               | PwrBlade |
|             |                |       |          | dr                                    | JM Guo 06/13/05        |            |       |                                              |          |
|             |                |       |          | enr                                   | SLUO 06/13/05          |            |       |                                              |          |
|             |                |       |          | chr                                   | VICTOR LIN 06/13/05    | 1:1        | size  | dwg no                                       | code     |
|             |                |       |          | appd                                  | JOSEPH HSIA 06/13/05   |            |       |                                              |          |
|             |                |       |          |                                       |                        |            |       |                                              |          |
| sheet index | revision sheet | A 1   | A 2      | A 3                                   | A 4                    |            |       |                                              |          |
|             |                |       |          |                                       |                        |            |       |                                              |          |

B

PDM: Rev:A

STATUS: Released

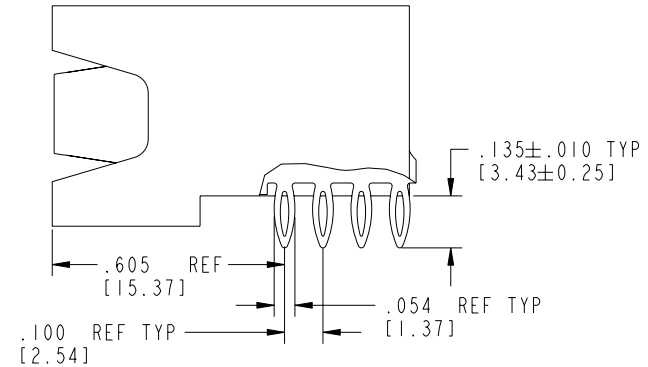
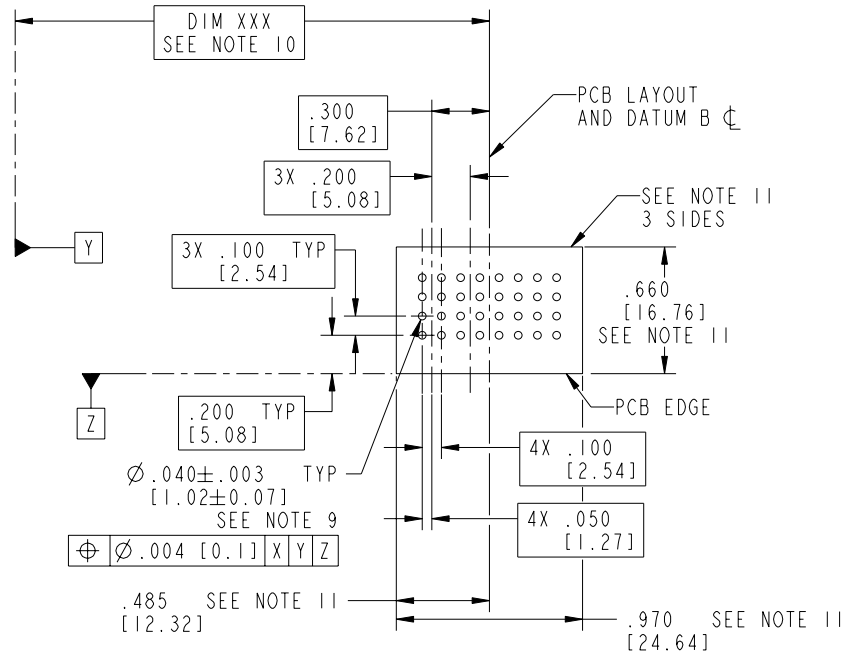
Printed: Oct 08, 2006

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PRODUCT NUMBER  
51939-196--  
NOTE 3



RECOMMENDED PCB LAYOUT

| mat'l code  |                |    |      | tolerances unless otherwise specified |                       | CUSTOMER   |  | <b>FCI</b> www.fciconnect.com |  |        |  |
|-------------|----------------|----|------|---------------------------------------|-----------------------|------------|--|-------------------------------|--|--------|--|
| ltr         | ecn no.        | dr | date | linear                                | .XX±.01/0.X±0.3       | COPY       |  | title 4P                      |  |        |  |
| A           |                |    |      |                                       | .XXX±.005/0.XX±0.13   | projection |  | RIGHT ANGLE PF HEADER         |  |        |  |
|             |                |    |      |                                       | .XXX±.0020/0.XX±0.051 |            |  | product family PwrBlade       |  |        |  |
|             |                |    |      | angles                                | 0°±2°                 | INCH/MM    |  | size                          |  | code   |  |
|             |                |    |      | dr                                    | JM Guo 06/13/05       | scale 1:1  |  | dwg no                        |  | 213    |  |
|             |                |    |      | enr                                   | SLUO 06/13/05         |            |  | A 51939-196                   |  | sheet  |  |
|             |                |    |      | chr                                   | VICTOR LIN 06/13/05   |            |  |                               |  | 2 of 3 |  |
|             |                |    |      | appd                                  | JOSEPH HSIA 06/13/05  |            |  |                               |  |        |  |
| sheet index | revision sheet |    |      |                                       |                       |            |  |                               |  |        |  |

Pro/E

cage code 22526

PDM: Rev:A

STATUS: Released

Printed: Oct 08, 2006

PRODUCT NUMBER  
51939-196--  
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:

51939-196 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.

51939-196LF 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 51939-196LF 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:

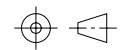
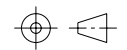
7. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

8. MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.

9.  $\varnothing .0453 \pm .0010$  [1.151 $\pm$ 0.025] 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.

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 $\pm$ .01/0.X $\pm$ 0.3        |          |                                                                                                                |                                       | COPY       |  |                |          | <br>RIGHT ANGLE PF HEADER |  |           |                                              |  |  |  |
| A           |         |                |      |            | .XXX $\pm$ .005/0.XX $\pm$ 0.13    |          |                                                                                                                |                                       | projection |  |                |          |                                                                                                                |  |           |                                              |  |  |  |
|             |         |                |      |            | .XXX $\pm$ .0020/0.XXX $\pm$ 0.051 |          |                                                                                                                |                                       | INCH/MM    |  |                |          |                                                                                                                |  |           |                                              |  |  |  |
|             |         |                |      | angles     | 0 $\pm$ 2°                         |          |                                                                                                                |                                       | scale      |  |                |          | 1:1                                                                                                            |  |           |                                              |  |  |  |
|             |         |                |      | dr         | JM Guo                             | 06/13/05 | <br>RIGHT ANGLE PF HEADER |                                       |            |  | product family |          |                                                                                                                |  | PwrBlade  |                                              |  |  |  |
|             |         |                |      | enr        | SLUO                               | 06/13/05 |                                                                                                                |                                       |            |  | size           |          |                                                                                                                |  | dwg no    |                                              |  |  |  |
|             |         |                |      | chr        | VICTOR LIN                         | 06/13/05 |                                                                                                                |                                       |            |  | A              |          |                                                                                                                |  | 51939-196 |                                              |  |  |  |
|             |         |                |      | appd       | JOSEPH HSIA                        | 06/13/05 |                                                                                                                |                                       |            |  | sheet          |          |                                                                                                                |  | 3 of 3    |                                              |  |  |  |
| sheet index |         | revision sheet |      |            |                                    |          |                                                                                                                |                                       |            |  |                |          |                                                                                                                |  |           |                                              |  |  |  |