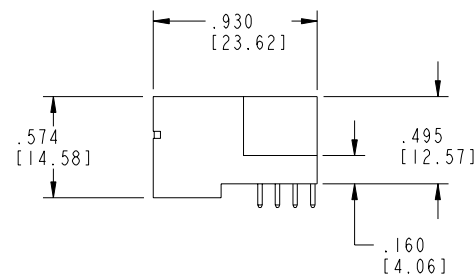


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**Δ** **ΕΙ**

.575 REF [14.61]  
 IX .250 REF [6.35]  
 .150 REF [3.81]  
 3X .100 REF [2.54]  
 .325 REF [8.26]  
 IX .250 REF [6.35]  
 A  
 B  
 C  
 SEE NOTE 4  
 C  
 B  
 A  
 POWER POS. PI  
 DATUM B  
 SIGNAL POS. AI  
 2.050 ± .010 [52.07 ± 0.25]



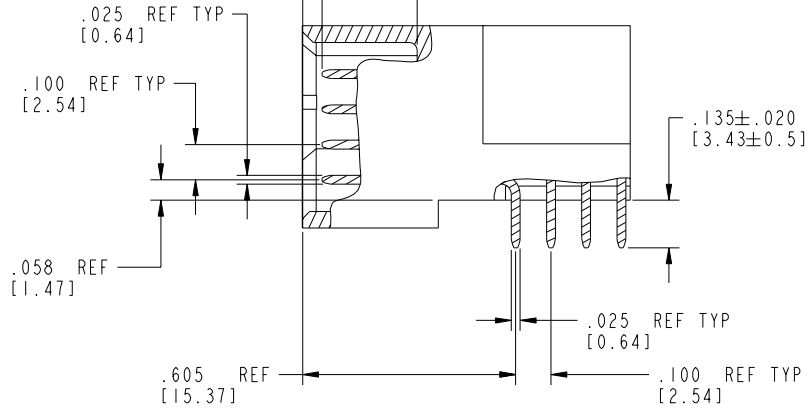
|             |  |                |  |            |  |          |  |                                       |  |                                    |  |          |  |                                                                    |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
|-------------|--|----------------|--|------------|--|----------|--|---------------------------------------|--|------------------------------------|--|----------|--|--------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|--------|--|---|--|
| mat'l code  |  |                |  | SEE NOTE 2 |  |          |  | tolerances unless otherwise specified |  |                                    |  | CUSTOMER |  | <div><div>A</div><div>FCI</div><div>www.fciconnect.com</div></div> |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
| lfr         |  | ecn no.        |  | dr         |  | date     |  | linear                                |  | $.XX \pm .01 / O.X \pm 0.3$        |  |          |  | COPY                                                               |  | <div><div>projection</div><div></div><div>title</div><div>2P + 16S + 2P</div><div>R/A SOLDER HEADER</div></div> |  |           |  |        |  |   |  |
| A           |  | V20559         |  | DAI        |  | 03/19/02 |  |                                       |  | $.XXX \pm .005 / O.XX \pm 0.13$    |  |          |  | INCH/MM                                                            |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
| B           |  | DG05-0560      |  | CS         |  | 12/26/05 |  |                                       |  | $.XXX \pm .0020 / O.XXX \pm 0.051$ |  |          |  | scale                                                              |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
|             |  |                |  |            |  |          |  |                                       |  |                                    |  |          |  | 1:1                                                                |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
|             |  |                |  |            |  |          |  | angles                                |  | $0^\circ \pm 2^\circ$              |  |          |  |                                                                    |  | product family                                                                                                                                                                                       |  | PwrBlade  |  | code   |  |   |  |
|             |  |                |  |            |  |          |  | dr                                    |  | D. INGRAM 03/19/02                 |  |          |  |                                                                    |  | size                                                                                                                                                                                                 |  | dwg no    |  | 213    |  |   |  |
|             |  |                |  |            |  |          |  | engr                                  |  | J. SWAIN 03/19/02                  |  |          |  |                                                                    |  | A                                                                                                                                                                                                    |  | 51730-042 |  | sheet  |  |   |  |
|             |  |                |  |            |  |          |  | chr                                   |  | J. SWAIN 03/19/02                  |  |          |  |                                                                    |  |                                                                                                                                                                                                      |  |           |  | 1 of 4 |  |   |  |
|             |  |                |  |            |  |          |  | appd                                  |  | J. SWAIN 03/19/02                  |  |          |  |                                                                    |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
| sheet index |  | revision sheet |  | B          |  | B        |  | B                                     |  | B                                  |  |          |  |                                                                    |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
|             |  |                |  | 1          |  | 2        |  | 3                                     |  | 4                                  |  |          |  |                                                                    |  |                                                                                                                                                                                                      |  |           |  |        |  |   |  |
|             |  |                |  | Pro/E      |  |          |  |                                       |  |                                    |  | 3        |  |                                                                    |  |                                                                                                                                                                                                      |  | cage code |  | 22526  |  | 4 |  |

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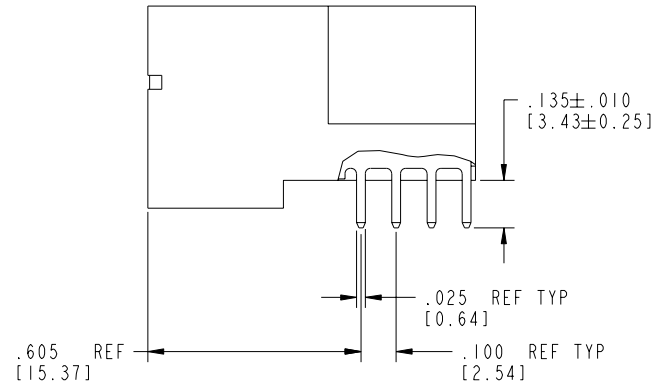
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**FCI**

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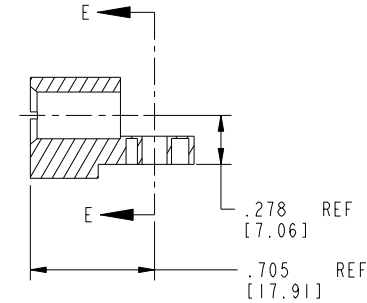
PRODUCT NUMBER  
51730-042--  
NOTE: 3



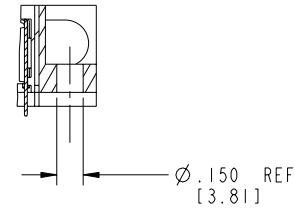
BROKEN-OUT SECTION A-A  
SCALE 2:1



BROKEN-OUT SECTION B-B  
SCALE 2:1



SECTION C-C



PARTIAL SECTION E-E

|                       |                |    |      |                                       |                                                                                                       |                                                                                       |      |                                                                                                             |                                    |
|-----------------------|----------------|----|------|---------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------|------------------------------------|
| mat'l code SEE NOTE 2 |                |    |      | tolerances unless otherwise specified |                                                                                                       | CUSTOMER                                                                              |      | <br>www.fciconnect.com |                                    |
| ltr                   | ecn no.        | dr | date | linear                                | $.XX \pm .01 / 0.X \pm 0.3$<br>$.XXX \pm .005 / 0.XX \pm 0.13$<br>$.XXXX \pm .0020 / 0.XXX \pm 0.051$ | projection                                                                            | COPY |                                                                                                             |                                    |
| B                     |                |    |      | angles                                | $0^\circ \pm 2^\circ$                                                                                 |  |      | title                                                                                                       | 2P + 16S + 2P<br>R/A SOLDER HEADER |
|                       |                |    |      | dr                                    | D. INGRAM 03/19/02                                                                                    | INCH/MM<br>1:1                                                                        |      | product family                                                                                              | PwrBlade                           |
|                       |                |    |      | enr                                   | J. SWAIN 03/19/02                                                                                     |                                                                                       | size | dwg no                                                                                                      | 213                                |
|                       |                |    |      | chr                                   | J. SWAIN 03/19/02                                                                                     |                                                                                       | A    | 51730-042                                                                                                   | sheet 2 of 4                       |
|                       |                |    |      | appd                                  | J. SWAIN 03/19/02                                                                                     |                                                                                       |      |                                                                                                             |                                    |
| sheet index           | revision sheet |    |      |                                       |                                                                                                       |                                                                                       |      | cage code                                                                                                   | 22526                              |

Pro/E

PDM: Rev:B

STATUS Released

Printed: Oct 08, 2006

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B

1 | 2

3 |

4

# PRODUCT NUMBER

51730-042\_-  
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:

51730-042 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.

51730-042LF 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 51730-042LF 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.

## PCB NOTES:

6. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

7. MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.

8. Ø.0453±0.0010 [1.151±0.025] DRILLED HOLES PLATED WITH

0.0003 [0.008] MIN SnPb OVER .001 [0.03]  
TO .003 [0.08] Cu PLATING TO ACHIEVE  
Ø.040±.003 [1.02±.07] HOLE.

9. "DIM XXX" TO BE DETERMINED BY THE CUSTOMER.

10. CONNECTOR KEEP-OUT ZONE.

|             |         |                |  |            |                    |                         |        |                                          |                   |            |       |                                                                                       |  |  |      |                                                                    |           |  |        |          |       |      |  |
|-------------|---------|----------------|--|------------|--------------------|-------------------------|--------|------------------------------------------|-------------------|------------|-------|---------------------------------------------------------------------------------------|--|--|------|--------------------------------------------------------------------|-----------|--|--------|----------|-------|------|--|
| mat'l code  |         |                |  | SEE NOTE 2 |                    |                         |        | tolerances unless<br>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>2P + 16S + 2P<br>R/A SOLDER HEADER                        |           |  |        |          |       |      |  |
| B           |         |                |  |            |                    | .XXX±.005/0.XX±0.13     |        |                                          |                   | projection |       |                                                                                       |  |  |      |                                                                    |           |  |        |          |       |      |  |
|             |         |                |  |            |                    | .XXXX±.0020/0.XXX±0.051 |        |                                          |                   | INCH/MM    |       |                                                                                       |  |  |      |                                                                    |           |  |        |          |       |      |  |
|             |         |                |  |            |                    | angles                  |        | 0°±2°                                    |                   |            |       |  |  |  |      | product family                                                     |           |  |        | PwrBlade |       | code |  |
|             |         |                |  | dr         | D. INGRAM 03/19/02 |                         | engr   |                                          | J. SWAIN 03/19/02 |            | scale |                                                                                       |  |  | size |                                                                    | dwg no    |  | 213    |          | sheet |      |  |
|             |         |                |  | chr        | J. SWAIN 03/19/02  |                         | appd   |                                          | J. SWAIN 03/19/02 |            | 1:1   |                                                                                       |  |  | A    |                                                                    | 51730-042 |  | 4 of 4 |          |       |      |  |
| sheet index |         | revision sheet |  |            |                    |                         |        |                                          |                   |            |       |                                                                                       |  |  |      |                                                                    |           |  |        |          |       |      |  |

A

B

1 | 2

Pro/E

3 |

cage code 22526

4

PDM: Rev:B

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Printed: Oct 08, 2006

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