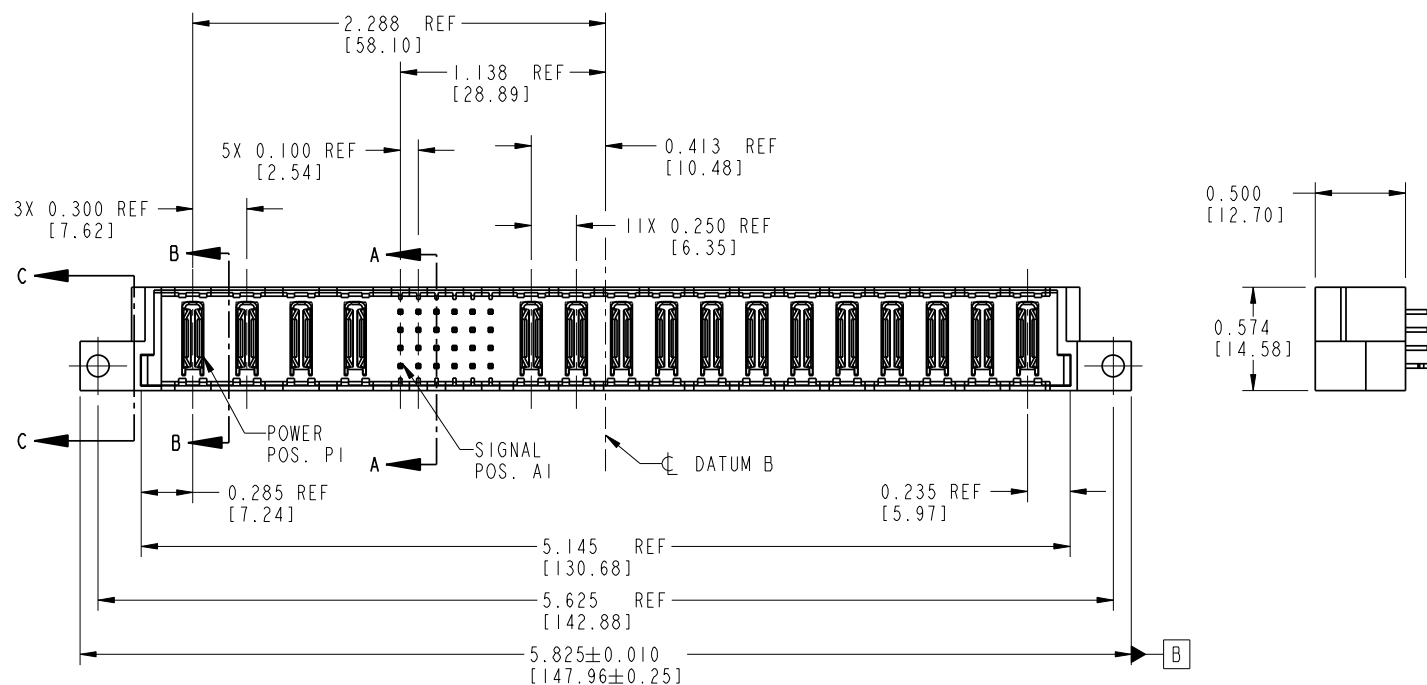


**AFI**

Arrow.com.



|             |  |           |  |            |  |          |  |                                                                                                         |  |                                 |  |            |  |                                                                                       |  |                                                                                                             |  |        |  |
|-------------|--|-----------|--|------------|--|----------|--|---------------------------------------------------------------------------------------------------------|--|---------------------------------|--|------------|--|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|--------|--|
| mat'l code  |  |           |  | SEE NOTE 2 |  |          |  | tolerances unless otherwise specified                                                                   |  |                                 |  | CUSTOMER   |  |                                                                                       |  | <br>www.fciconnect.com |  |        |  |
| ltr         |  | ecn no.   |  | dr         |  | date     |  | linear<br>$XX \pm .01/0.X \pm 0.3$<br>$.XXX \pm .005/0.XX \pm 0.13$<br>$.XXXX \pm .002/0.XXX \pm 0.051$ |  | angles<br>$0^\circ \pm 2^\circ$ |  | projection |  |  |  | title<br>4ACP + 24S + 12P<br>VERTICAL SOLDER HEADER                                                         |  |        |  |
| A           |  | V03-1075  |  | TAB        |  | 09/26/03 |  |                                                                                                         |  |                                 |  | INCH/MM    |  |                                                                                       |  |                                                                                                             |  |        |  |
| B           |  | DG05-0506 |  | Ryan       |  | 11/28/05 |  |                                                                                                         |  |                                 |  | scale      |  |                                                                                       |  |                                                                                                             |  |        |  |
|             |  |           |  |            |  |          |  |                                                                                                         |  |                                 |  | 1:1        |  |                                                                                       |  |                                                                                                             |  |        |  |
|             |  |           |  |            |  |          |  | dr                                                                                                      |  | T. BRUNGARD                     |  | 08/22/03   |  | product family                                                                        |  | PwrBlade                                                                                                    |  | code   |  |
|             |  |           |  |            |  |          |  | engr                                                                                                    |  | M. MOSTOLLER                    |  | 08/22/03   |  | size                                                                                  |  | dwg no                                                                                                      |  | 213    |  |
|             |  |           |  |            |  |          |  | chr                                                                                                     |  | M. MOSTOLLER                    |  | 08/22/03   |  | A                                                                                     |  | 51963-005                                                                                                   |  | sheet  |  |
|             |  |           |  |            |  |          |  | appd                                                                                                    |  | M. MOSTOLLER                    |  | 08/22/03   |  |                                                                                       |  |                                                                                                             |  | 1 of 4 |  |
| sheet index |  | revision  |  | B          |  | B        |  | B                                                                                                       |  | B                               |  |            |  |                                                                                       |  |                                                                                                             |  |        |  |
|             |  | sheet     |  | 1          |  | 2        |  | 3                                                                                                       |  | 4                               |  |            |  |                                                                                       |  |                                                                                                             |  |        |  |

# PRELIMINARY

**A**  
**FC**

[www.fciconnect.com](http://www.fciconnect.com)

|       |                        |
|-------|------------------------|
| title | 4ACP + 24S + 12P       |
|       | VERTICAL SOLDER HEADER |

| product family | Pwr Blade | code |
|----------------|-----------|------|
|----------------|-----------|------|

|      |        |     |
|------|--------|-----|
| size | dwg no | 213 |
|------|--------|-----|

|   |           |      |
|---|-----------|------|
| Λ | 51963-005 | shee |
|---|-----------|------|

[illegible]

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

|           |       |
|-----------|-------|
| coge code | 22526 |
|-----------|-------|

Pro/E

**PDM: Rev:B**

STATUS: **Released**

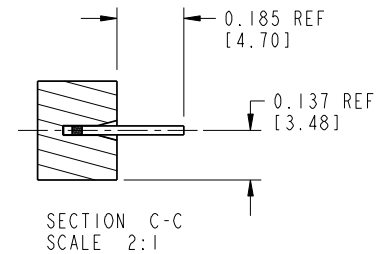
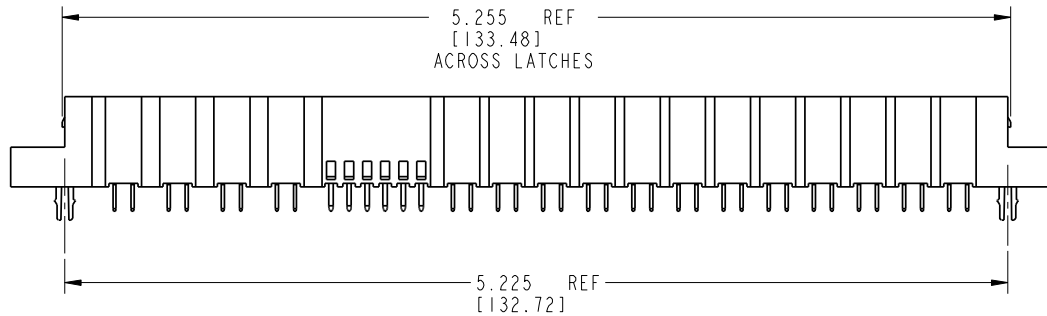
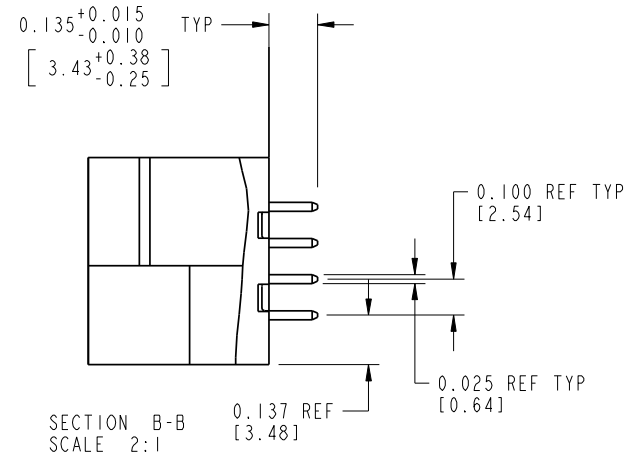
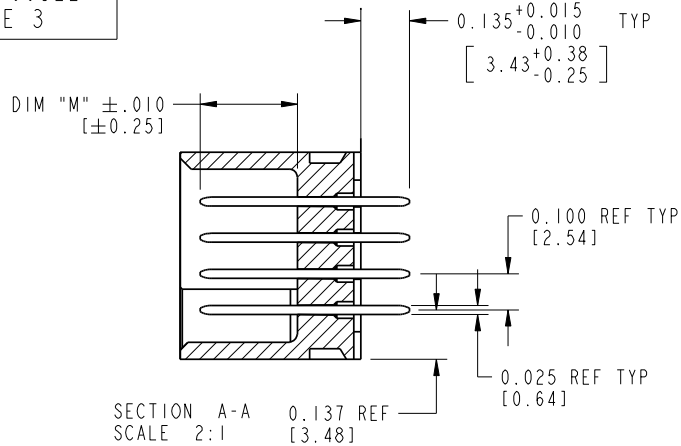
Printed: Oct 08, 2006

Tous droits strictement réservés. Reproduction ou communication à des tiers interdite sous quelque forme que ce soit sans autorisation écrite du propriétaire. Propriété de c FCI. Droits de reproduction FCI.

All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor. Property of FCI. Copyright FCI.

PRODUCT NUMBER

51963-005--  
NOTE 3



PRELIMINARY

| mat'l code  |          |       |      | tolerances unless otherwise specified |                        | CUSTOMER   |           | A FCI                  |                  |
|-------------|----------|-------|------|---------------------------------------|------------------------|------------|-----------|------------------------|------------------|
| SEE NOTE 2  |          |       |      |                                       |                        | COPY       |           | www.fciconnect.com     |                  |
| lir         | ecn no.  | dr    | date | linear                                | .XX±.01/0.X±0.3        | projection |           | title                  | 4ACP + 24S + 12P |
| B           |          |       |      |                                       | .XXX±.005/0.XX±0.13    |            |           | VERTICAL SOLDER HEADER |                  |
|             |          |       |      | angles                                | .XXX±.0020/0.XXX±0.051 | INCH/MM    | scale 1:1 | product family         | PwrBlade         |
|             |          |       |      | dr                                    | T. BRUNGARD 08/22/03   |            |           | size                   | 213              |
|             |          |       |      | engr                                  | M. MOSTOLLER 08/22/03  |            |           | dwg no                 | 51963-005        |
|             |          |       |      | chr                                   | M. MOSTOLLER 08/22/03  |            |           | sheet                  | 2 of 4           |
|             |          |       |      | appd                                  | M. MOSTOLLER 08/22/03  |            |           |                        |                  |
| sheet index | revision | sheet |      |                                       |                        |            |           |                        |                  |

cage code 22526

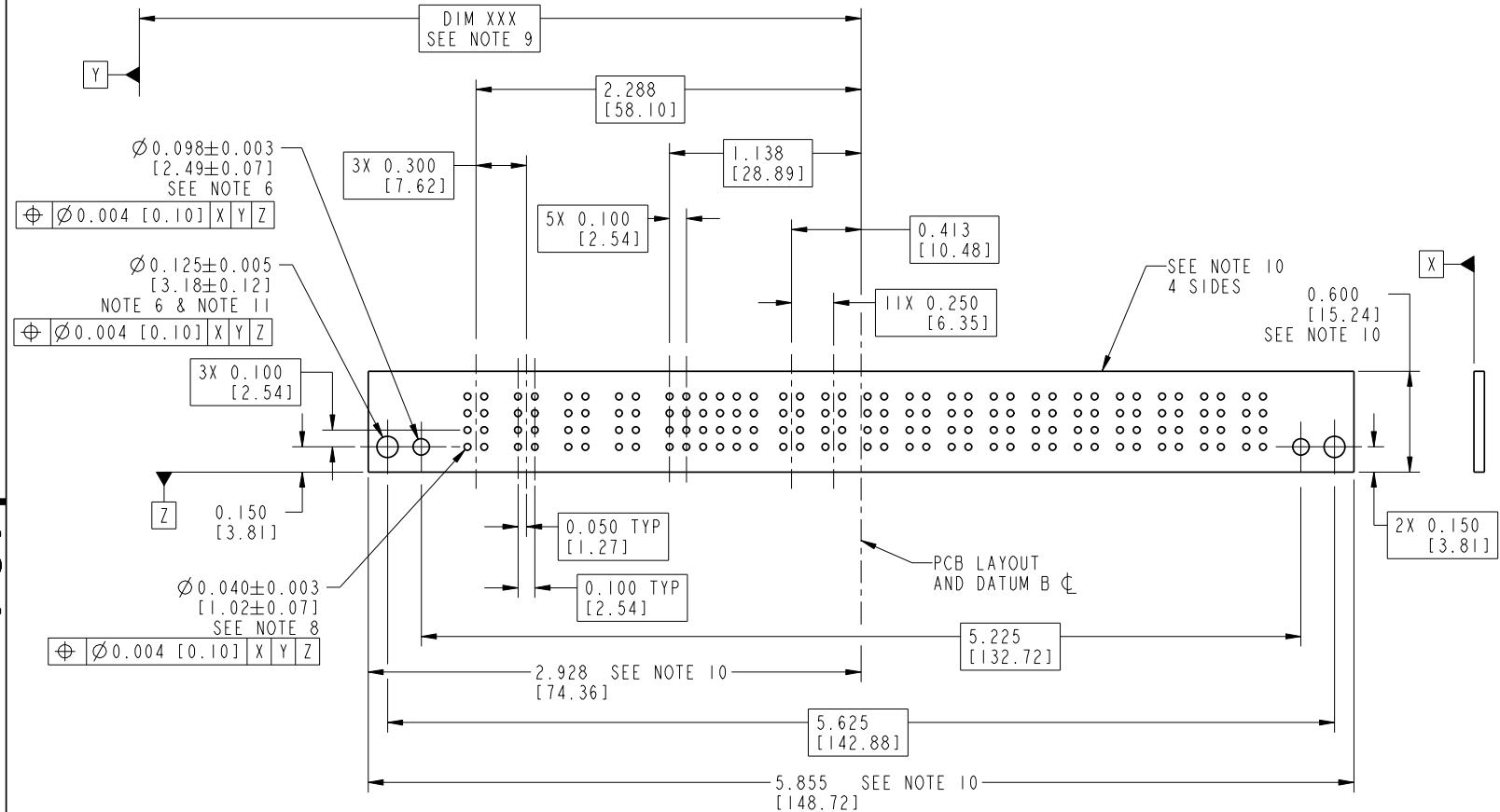
Pro/E

Tous droits strictement réservés. Reproduction ou communication à des tiers interdite sous quelque forme que ce soit sans autorisation écrite du propriétaire. Propriété de c FCI. Droits de reproduction FCI.

**FCI**

All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor. Property of FCI. Copyright FCI.

PRODUCT NUMBER  
51963-005--  
NOTE 3



**PRELIMINARY**

| mat'l code  |          |       |      | tolerances unless otherwise specified |                       | CUSTOMER   |      | A FCI                  |                    |
|-------------|----------|-------|------|---------------------------------------|-----------------------|------------|------|------------------------|--------------------|
| lir         | ecn no.  | dr    | date | linear                                | XXX±.01/0.X±0.3       | projection | COPY | title                  | www.fciconnect.com |
| B           |          |       |      | linear                                | .XXX±.005/0.XX±0.13   | projection |      | 4ACP + 24S + 12P       |                    |
|             |          |       |      | angles                                | XXX±.002/0.XXX±0.051  | projection |      | VERTICAL SOLDER HEADER |                    |
|             |          |       |      | dr                                    | T. BRUNGARD 08/22/03  | INCH/MM    |      | product family         | PwrBlade           |
|             |          |       |      | enrg                                  | M. MOSTOLLER 08/22/03 | scale      |      | size                   | dwg no             |
|             |          |       |      | chr                                   | M. MOSTOLLER 08/22/03 | 1:1        |      | 51963-005              | code               |
|             |          |       |      | appd                                  | M. MOSTOLLER 08/22/03 |            |      |                        | 213                |
| sheet index | revision | sheet |      |                                       |                       |            |      |                        | sheet              |
|             |          |       |      |                                       |                       |            |      |                        | 3 of 4             |

Pro/E

code code 22526

Tous droits strictement reserves. Reproduction ou communication a des tiers interdite sous quelque forme que ce soit sans autorisation écrite du propriétaire. Propriété de c FCI. Droits de reproduction FCI.

**A**  
**FCI**

All rights strictly reserved. Reproduction or issue to third parties in any form without written authority from the proprietor. Property of FCI. Copyright FCI.

A

B

PRODUCT NUMBER  
51963-005--  
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:

51963-005: SIGNAL PIN:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA  
AND 100u"/2.54um SnPb OVER 50u"/1.27um Ni ON THE TERMINATION AREA  
POWER PIN:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA  
AND 100u"/2.54um SnPb OVER 50u"/1.27um Ni ON THE TERMINATION AREA

51963-005LF: SIGNAL PIN:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA  
AND 78u"/2.00um Sn OVER 50u"/1.27um Ni ON THE TERMINATION AREA  
POWER PIN:30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA  
AND 78u"/2.00um Sn OVER 50u"/1.27um Ni ON THE TERMINATION AREA

PART NUMBER 51963-005LF 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. PRODUCT SPECIFICATION GS-12-149.  
APPLICATION SPECIFICATION BUS-20-067.

5. PACKAGED IN TRAYS.

PCB NOTES:

6. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

7. MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.

8  $\varnothing .0453 \pm .0010$  [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.

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

10 CONNECTOR KEEP-OUT ZONE.

11 CUSTOMER SUPPLIES (2) #4-40 UNC SCREWS,  
HARDWARE TO MOUNT HEADER TO PC BOARD.

PRELIMINARY

| mat'l code  |          |       |      | tolerances unless otherwise specified |                       | CUSTOMER   |         | <b>A</b><br><b>FCI</b><br>www.fciconnect.com |      |           |        |
|-------------|----------|-------|------|---------------------------------------|-----------------------|------------|---------|----------------------------------------------|------|-----------|--------|
| lfr         | ecn no.  | dr    | date | linear                                | angles                | projection | INCH/MM | product family                               | size | dwg no    | code   |
| B           |          |       |      | $.XX \pm .01 / 0.X \pm 0.3$           | $0^\circ \pm 2^\circ$ |            | 1:1     | PwrBlade                                     | A    | 51963-005 | 213    |
|             |          |       |      | $.XXX \pm .005 / 0.XX \pm 0.13$       |                       |            |         |                                              |      |           | sheet  |
|             |          |       |      | $.XXX \pm .0020 / 0.XXX \pm 0.051$    |                       |            |         |                                              |      |           | 4 of 4 |
|             |          |       |      | dr T. BRUNGARD 08/22/03               |                       |            |         |                                              |      |           |        |
|             |          |       |      | enrg M. MOSTOLLER 08/22/03            |                       |            |         |                                              |      |           |        |
|             |          |       |      | chr M. MOSTOLLER 08/22/03             |                       |            |         |                                              |      |           |        |
|             |          |       |      | apgd M. MOSTOLLER 08/22/03            |                       |            |         |                                              |      |           |        |
| sheet index | revision | sheet |      |                                       |                       |            |         |                                              |      |           |        |

A

B

1 | 2

3 |

4

1 | 2

Pro/E

3 |

cage code 22526

4