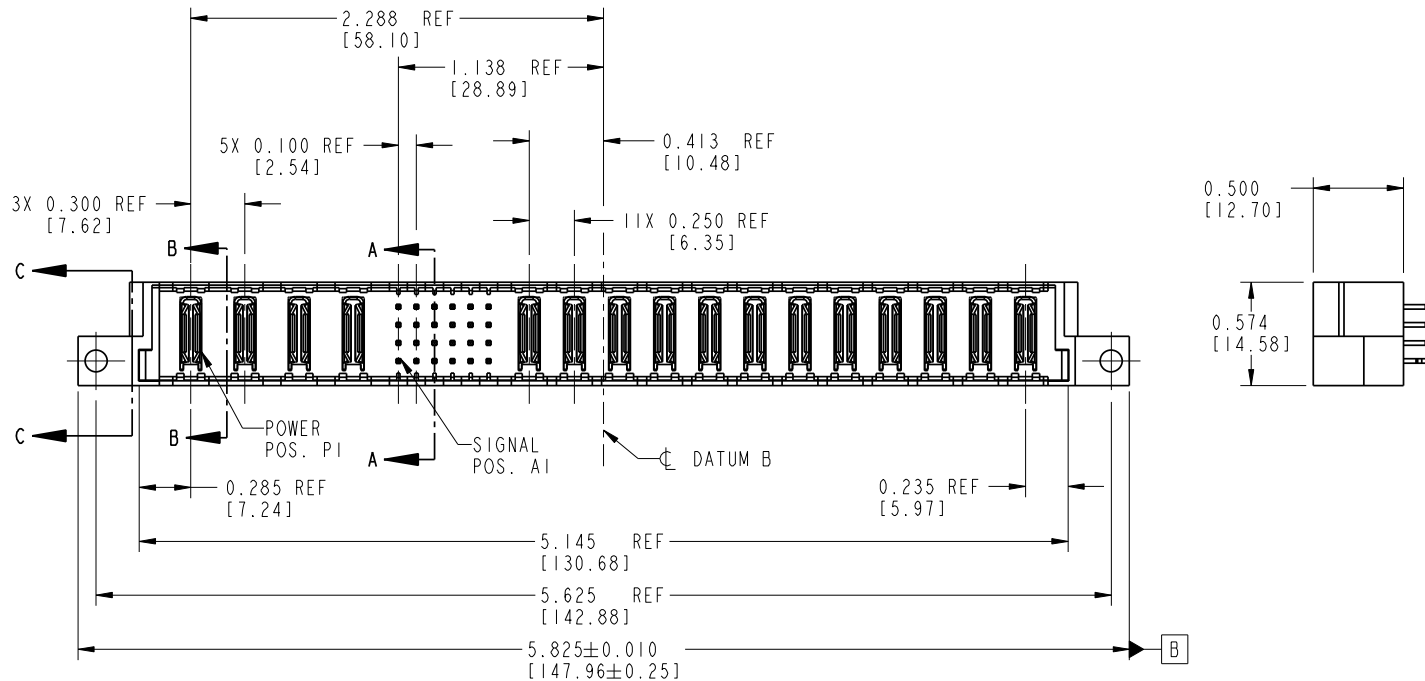


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| PRODUCT NO.           | ROWS             | POWER                                                                             |                                                                                      |                                                                                      |                                                                                      | SIGNAL                                                                               |                                                                                      |                                                                                     |                                                                                      | POWER                                                                                 |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        | PRINTING                                                                               |                                                                                        |                          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|                       |                  | E1                                                                                | P1                                                                                   | P2                                                                                   | P3                                                                                   | P4                                                                                   | 1                                                                                    | 2                                                                                   | 3                                                                                    | 4                                                                                     | 5                                                                                     | 6                                                                                     | P5                                                                                    | P6                                                                                    | P7                                                                                    | P8                                                                                     | P9                                                                                     | P10                                                                                    | P11                                                                                    | P12                                                                                    | P13                                                                                    |                                                                                        | P14                                                                                    | P15                                                                                    | P16                                                                                    | E2                                                                                     |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                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                            |                                                                                         |                                                                                         |                                                                                         |  |
| 51963-005--<br>NOTE 3 | D<br>C<br>B<br>A |  |  HA |  PA |  PA |  PA |  PA |  E |  E |  E |  E |  E |  E |  E |  E |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  PA |  |



| CODE | DIM "M"<br>MATING<br>LENGTH | CONTACT<br>TYPE |
|------|-----------------------------|-----------------|
| E    | 0.270 [6.86]                | SIGNAL          |
| PA   | N/A [N/A]                   | POWER           |
| HA   | N/A [N/A]                   | HOLD-DOWN       |

| mat'l code  |           |      |          | tolerances unless<br>otherwise specified |                        | CUSTOMER   |  | PRELIMINARY             |  |
|-------------|-----------|------|----------|------------------------------------------|------------------------|------------|--|-------------------------|--|
| SEE NOTE 2  |           |      |          |                                          |                        | COPY       |  | www.fciconnect.com      |  |
| lir         | ecm no.   | dr   | date     | linear                                   | .XX±.01/0.X±0.3        | projection |  | title 4ACP + 24S + 12P  |  |
| A           | V03-1075  | TAB  | 09/26/03 |                                          | .XXX±.005/0.XX±0.13    | INCH/MM    |  | VERTICAL SOLDER HEADER  |  |
| B           | DG05-0506 | Ryan | 11/28/05 |                                          | .XXX±.0020/0.XXX±0.051 |            |  | product family PwrBlade |  |
|             |           |      |          | angles                                   | 0°±2°                  | scale 1:1  |  | code 213                |  |
|             |           |      |          | dr                                       | T. BRUNGARD 08/22/03   |            |  | size                    |  |
|             |           |      |          | enqr                                     | M. MOSTOLLER 08/22/03  |            |  | dwg no                  |  |
|             |           |      |          | chr                                      | M. MOSTOLLER 08/22/03  |            |  | 51963-005               |  |
|             |           |      |          | appd                                     | M. MOSTOLLER 08/22/03  |            |  | sheet 1 of 4            |  |
| sheet index | revision  | B    | B        | B                                        | B                      |            |  |                         |  |
|             | sheet     | 1    | 2        | 3                                        | 4                      |            |  |                         |  |

Pro/E

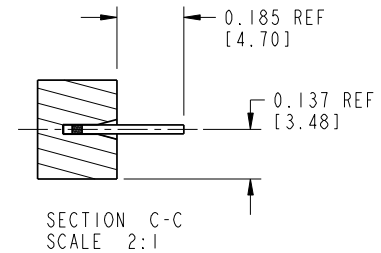
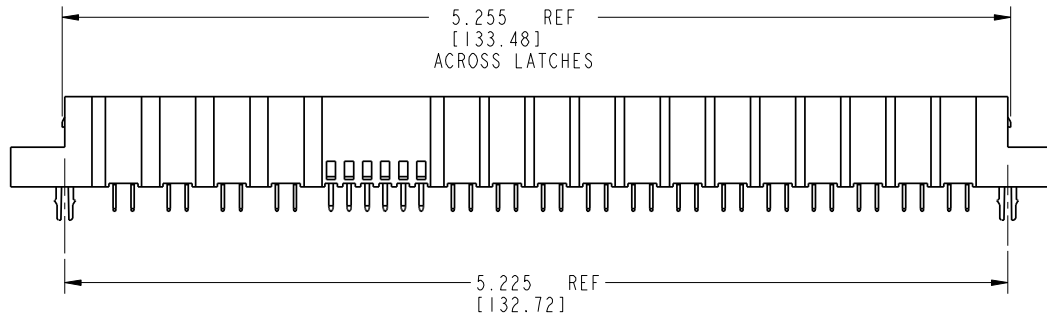
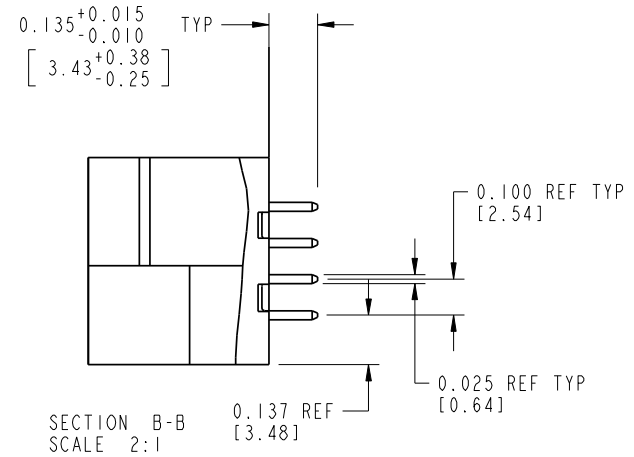
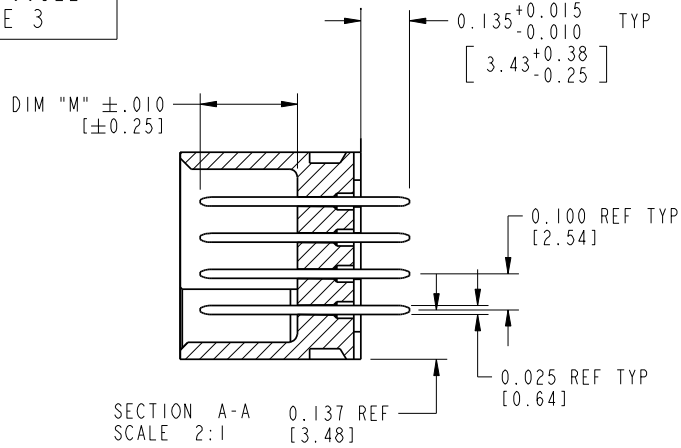
cage code 22526

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PRODUCT NUMBER

51963-005--  
NOTE 3



PRELIMINARY

|             |         |                |      |              |                        |                                          |            |                                                                                       |                |                                                                    |           |        |
|-------------|---------|----------------|------|--------------|------------------------|------------------------------------------|------------|---------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------|-----------|--------|
| 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> |           |        |
| 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                                             |           |        |
|             |         |                |      |              | .XXX±.0020/0.XXX±0.051 |                                          |            |                                                                                       |                |                                                                    |           |        |
|             |         |                |      | angles       | 0°+2°                  |                                          | INCH/MM    |  | product family | PwrBlade                                                           | code      |        |
|             |         | dr             |      | T. BRUNGARD  | 08/22/03               | size                                     |            |                                                                                       |                | dwg no                                                             | 213       |        |
|             |         | enrg           |      | M. MOSTOLLER | 08/22/03               | scale                                    |            |                                                                                       |                | A                                                                  | 51963-005 | sheet  |
|             |         | chr            |      | M. MOSTOLLER | 08/22/03               |                                          |            |                                                                                       |                |                                                                    |           | 2 of 4 |
|             |         | appd           |      | M. MOSTOLLER | 08/22/03               |                                          |            |                                                                                       |                |                                                                    |           |        |
| sheet index |         | revision sheet |      |              |                        |                                          |            |                                                                                       |                |                                                                    |           |        |

code code 22526

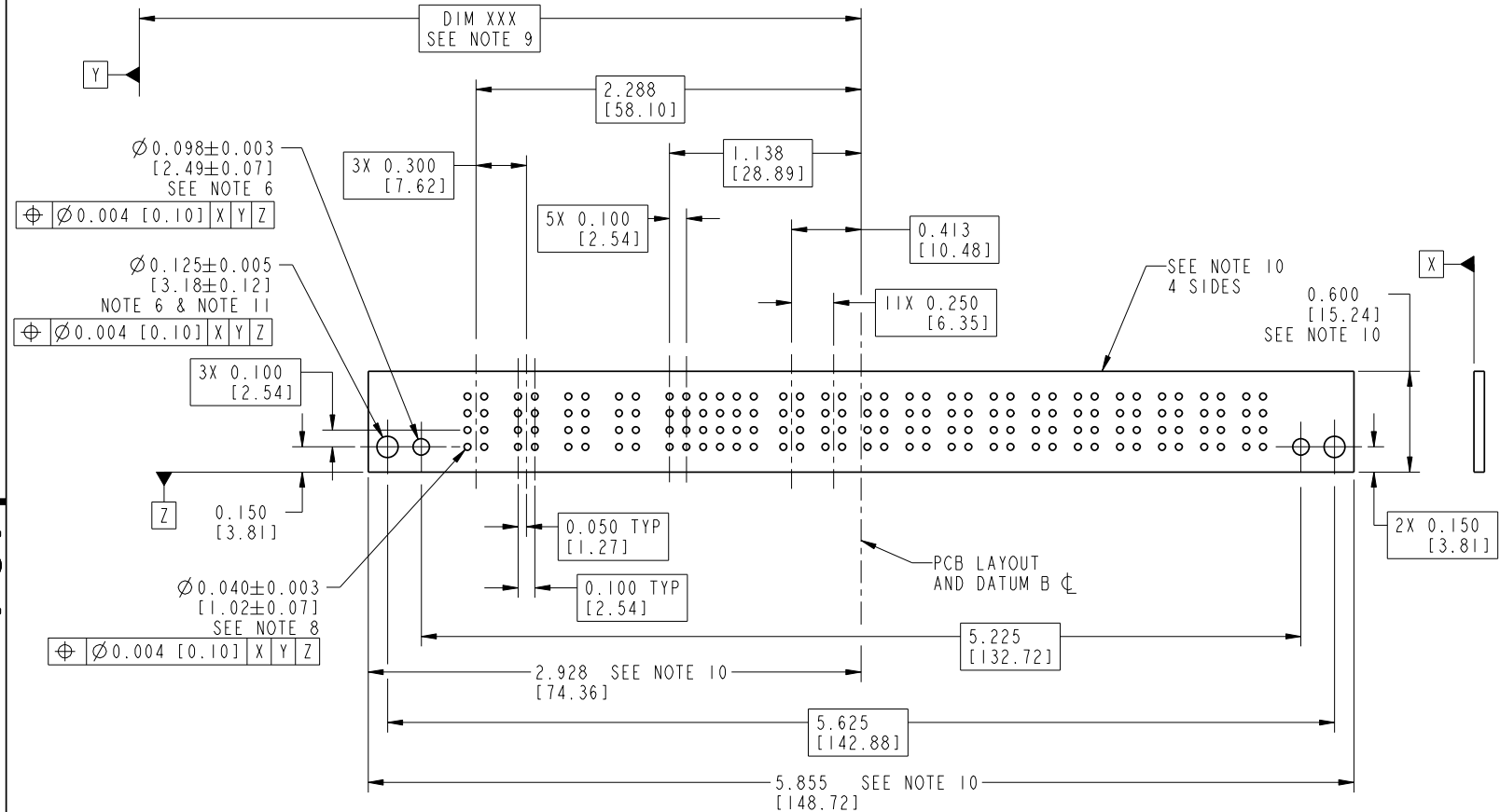
Pro/E

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PRODUCT NUMBER  
51963-005--  
NOTE 3



**PRELIMINARY**

| mat'l code  |          |       |      | tolerances unless otherwise specified |                                     | CUSTOMER |            | A FCI                  |                    |
|-------------|----------|-------|------|---------------------------------------|-------------------------------------|----------|------------|------------------------|--------------------|
| lir         | ecr no.  | dr    | date | linear                                | .XX $\pm$ .01 / 0.X $\pm$ 0.3       | COPY     | projection | title                  | www.fciconnect.com |
| B           |          |       |      | angles                                | .XXX $\pm$ .005 / 0.XX $\pm$ 0.13   |          |            | 4ACP + 24S + 12P       |                    |
|             |          |       |      | dr                                    | .XXX $\pm$ .002 / 0.XXX $\pm$ 0.051 |          |            | VERTICAL SOLDER HEADER |                    |
|             |          |       |      | enr                                   | 0 $\pm$ 2°                          | INCH/MM  |            | product family         | PwrBlade           |
|             |          |       |      | chr                                   | T. BRUNGARD 08/22/03                | scale    |            | size                   | 213                |
|             |          |       |      | appd                                  | M. MOSTOLLER 08/22/03               | 1:1      |            | dwg no                 | sheet              |
| sheet index | revision | sheet |      |                                       |                                     |          |            | 51963-005              | 3 of 4             |

Pro/E

cage code 22526

**AFICI**

A

B

3

4

51963-005--  
NOTE 3

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 DECCRIBED 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.

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

## PRELIMINARY

**AFC**

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

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

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

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

|   |           |                 |
|---|-----------|-----------------|
| A | 51963-005 | sheet<br>4 of 4 |
|---|-----------|-----------------|

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

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Pro/E

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