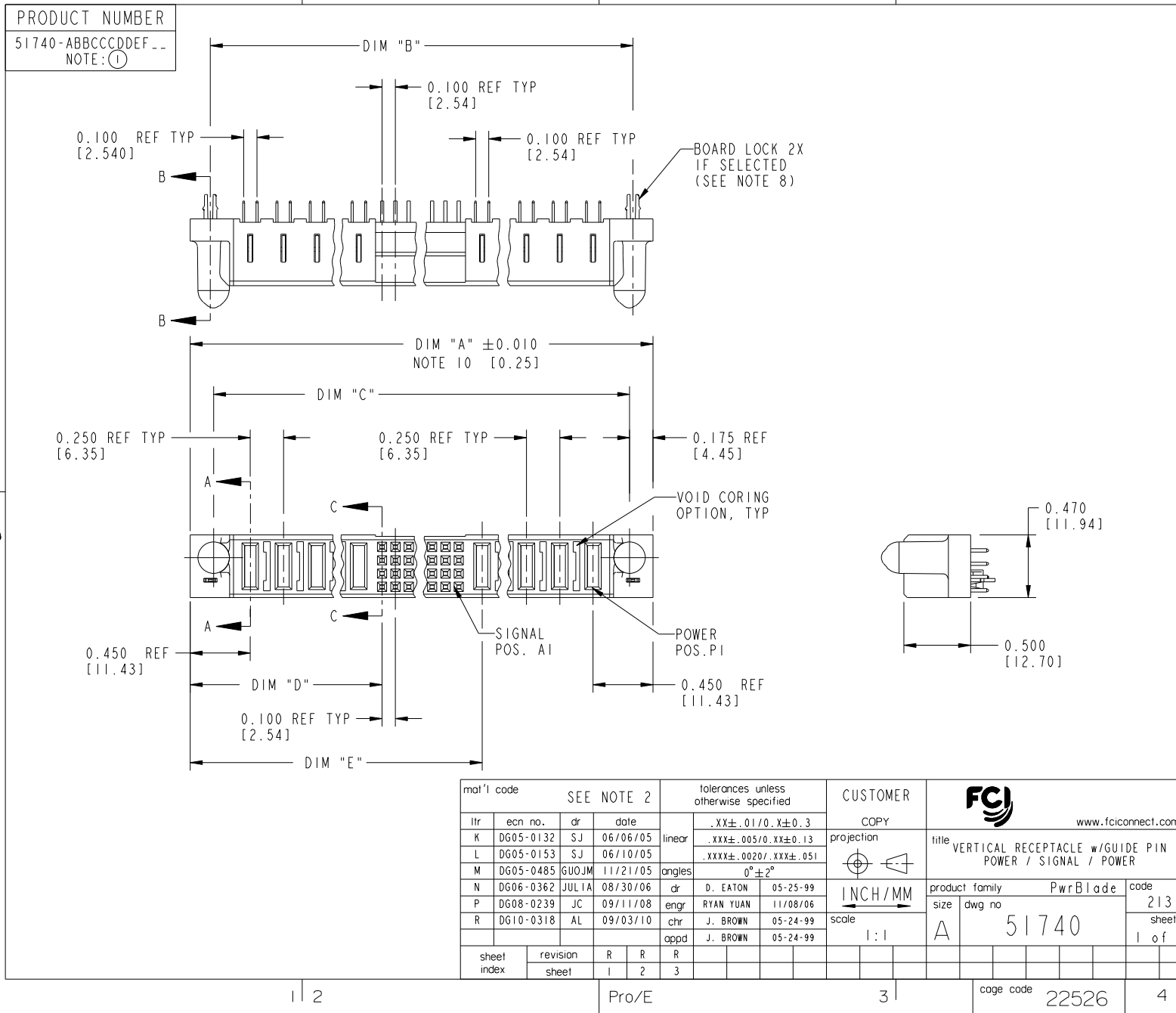


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| PRODUCT NUMBER                |
|-------------------------------|
| 51740-ABBCCCDDEF--<br>NOTE: ① |

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| DIM     | LENGTH FORMULAS (SEE NOTE 10)                                                        |
|---------|--------------------------------------------------------------------------------------|
| DIM "A" | .250 [6.35] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .650 [16.51] (NOTE 10) |
| DIM "B" | .250 [6.35] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .350 [8.89]            |
| DIM "C" | .250 [6.35] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .300 [7.62]            |
| DIM "D" | .250 [6.35] x DD + .375 [9.53]                                                       |
| DIM "E" | .250 [6.35] x DD + .100 [2.54] x (CCC/4) + .450 [11.43]                              |
| DIM "F" | .250 [6.35] x DD + .100 [2.54] x (CCC/4) + .250 [6.35] x BB + .680 [17.27]           |
| DIM "G" | .250 [6.35] x DD + .225 [5.72]                                                       |
| DIM "H" | .250 [6.35] x DD + .100 [2.54] x (CCC/4) + .250 [6.35]                               |

#### CONNECTOR NOTES

- PRODUCT NUMBER CODE:  
51740 - A BB CCC DD E F LF  
NO THIS SUFFIX: 100u"/2.54um SnPb ON PCB INTERFACE  
ADD THIS SUFFIX: 78u"/2.00um Sn ON PCB INTERFACE  
RETENTION TO PCB (NOTE 8)  
TAIL OPTIONS (NOTE 7)  
NUMBER OF LEFT END POWER CONTACTS (NOTE 6)  
NUMBER OF SIGNAL CONTACTS (NOTE 5)  
NUMBER OF RIGHT POWER CONTACTS (NOTE 4)  
PLATING (NOTE 3)  
BASE NUMBER
  - HOUSING MATERIAL: GLASS FILLED V-O HIGH TEMP THERMO PLASTIC.  
SIGNAL CONTACT MATERIAL: COPPER ALLOY  
POWER CONTACT MATERIAL: COPPER ALLOY
  - PLATING OPTION:  
I = SEE PRINT 10064183 FOR PLATING SPEC OF 51740-IBBCCCDDEF; 51740-IBBCCCDDEF LF
  - RIGHT END POWER CONTACT, 01 TO 20 AVAILABLE.  
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.
  - SIGNAL CONTACTS, 004 TO 148 AVAILABLE.
  - LEFT END POWER CONTACTS, 01 TO 20 AVAILABLE.  
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.
  - TAIL OPTIONS:  
A = .135 ±0.010 [3.43±0.25] SOLDER TO BOARD  
C = .135 ±0.010 [3.43±0.25] PRESS FIT
  - RETENTION TO PCB OPTIONS:  
A = BOARD LOCK (REQUIRES .098 + .002, -.001 [2.49 +0.05, -.003] THRU HOLE IN PCB)  
RECOMMENDED ON SYMMETRIC CONNECTORS.  
BOARD LOCK TO BE USED IN CONJUNCTION WITH AN .092 PCB OR THICKER.  
C = NO RETENTION FEATURE.
  - MANUFACTURE'S NAME, P/N, AND DATE CODE TO APPEAR ON THIS SURFACE.
  - THE MAXIMUM OVERALL LENGTH (DIM A) OF A PART IS 8.00 [203.2].
  - PRODUCT SPECIFICATION GS-12-149.
  - REFERENCE 51698 FOR SPECIALS WORKSHEET.
- PCB NOTES:
- ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.
  - ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF .004 [0.01]
  - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.
  - 0.0453±.001 [1.151±.02] DRILLED HOLES PLATED WITH 0.0003 [0.007] MIN SnPb OVER 0.001 [1.03] TO .003 [0.08] PLATING TO ACHIEVE A .040 ±.003 [1.02 ±.08] HOLE.
  - A SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

|             |  |                |  |            |  |      |  |                                          |  |                      |  |          |  |                   |  |                                                                                       |  |                                                                                       |  |                    |  |                                                                    |  |  |  |       |  |  |  |       |  |
|-------------|--|----------------|--|------------|--|------|--|------------------------------------------|--|----------------------|--|----------|--|-------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|--------------------|--|--------------------------------------------------------------------|--|--|--|-------|--|--|--|-------|--|
| mat'l code  |  |                |  | SEE NOTE 2 |  |      |  | tolerances unless<br>otherwise specified |  |                      |  | CUSTOMER |  |                   |  |  |  |                                                                                       |  | www.fciconnect.com |  |                                                                    |  |  |  |       |  |  |  |       |  |
| litr        |  | ecn no.        |  | dr         |  | date |  | linear                                   |  | .XX±.01/0.X±0.3      |  |          |  | COPY              |  |                                                                                       |  |  |  |                    |  | title<br>VERTICAL RECEPTACLE w/GUIDE PIN<br>POWER / SIGNAL / POWER |  |  |  |       |  |  |  |       |  |
| R           |  |                |  |            |  |      |  |                                          |  | .XXX±.005/0.XX±0.13  |  |          |  | projection        |  |                                                                                       |  |                                                                                       |  |                    |  |                                                                    |  |  |  |       |  |  |  |       |  |
|             |  |                |  |            |  |      |  | angles                                   |  | .XXX±.0020/.XXX±.051 |  |          |  |                   |  |                                                                                       |  |                                                                                       |  |                    |  |                                                                    |  |  |  |       |  |  |  |       |  |
|             |  |                |  |            |  |      |  |                                          |  | 0°±2°                |  |          |  |                   |  |                                                                                       |  |                                                                                       |  |                    |  |                                                                    |  |  |  |       |  |  |  |       |  |
|             |  |                |  |            |  |      |  | dr                                       |  | D. EATON 05-25-99    |  |          |  | INCH/MM           |  |                                                                                       |  | product family                                                                        |  |                    |  | PwrBlade                                                           |  |  |  | code  |  |  |  |       |  |
|             |  |                |  |            |  |      |  | enrg                                     |  | RYAN YUAN 11/08/06   |  |          |  |                   |  |                                                                                       |  | size                                                                                  |  |                    |  | dwg no                                                             |  |  |  | 213   |  |  |  |       |  |
|             |  |                |  |            |  |      |  |                                          |  | chr                  |  |          |  | J. BROWN 05-24-99 |  |                                                                                       |  | scale                                                                                 |  |                    |  | A                                                                  |  |  |  | 51740 |  |  |  | sheet |  |
|             |  |                |  |            |  |      |  | appd                                     |  | J. BROWN 05-24-99    |  |          |  | 1:1               |  |                                                                                       |  |                                                                                       |  |                    |  |                                                                    |  |  |  |       |  |  |  | 2 of  |  |
| sheet index |  | revision sheet |  |            |  |      |  |                                          |  |                      |  |          |  |                   |  |                                                                                       |  |                                                                                       |  |                    |  |                                                                    |  |  |  |       |  |  |  |       |  |

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Pro/E

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|             |                |            |      |                                       |                                             |                                                                                       |  |                                                                                                                                                  |                                                                    |
|-------------|----------------|------------|------|---------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| mat'l code  |                | SEE NOTE 2 |      | tolerances unless otherwise specified |                                             | CUSTOMER                                                                              |  |  <a href="http://www.fciconnect.com">www.fciconnect.com</a> |                                                                    |
| ltr         | ecn no.        | dr         | date | linear                                | .XX±.01/0.XX±0.3                            | COPY                                                                                  |  |                                                             | title<br>VERTICAL RECEPTACLE w/GUIDE PIN<br>POWER / SIGNAL / POWER |
| R           |                |            |      |                                       | .XXX±.005/0.XX±0.13<br>.XXX±.0020/.XXX±.051 | projection                                                                            |  |                                                                                                                                                  |                                                                    |
|             |                |            |      | angles                                | 0°±2°                                       |  |  | product family<br>PwrBlade                                                                                                                       | code<br>213                                                        |
|             |                |            |      | dr                                    | D. EATON 05-25-99                           | INCH/MM                                                                               |  |                                                                                                                                                  |                                                                    |
|             |                |            |      | enrg                                  | RYAN YUAN 11/08/06                          | scale                                                                                 |  | size                                                                                                                                             | dwg no<br>51740                                                    |
|             |                |            |      | chr                                   | J. BROWN 05-24-99                           | 1:1                                                                                   |  | A                                                                                                                                                | 3 of 1                                                             |
|             |                |            |      | appd                                  | J. BROWN 05-24-99                           |                                                                                       |  |                                                                                                                                                  |                                                                    |
| sheet index | revision sheet |            |      |                                       |                                             |                                                                                       |  |                                                                                                                                                  |                                                                    |