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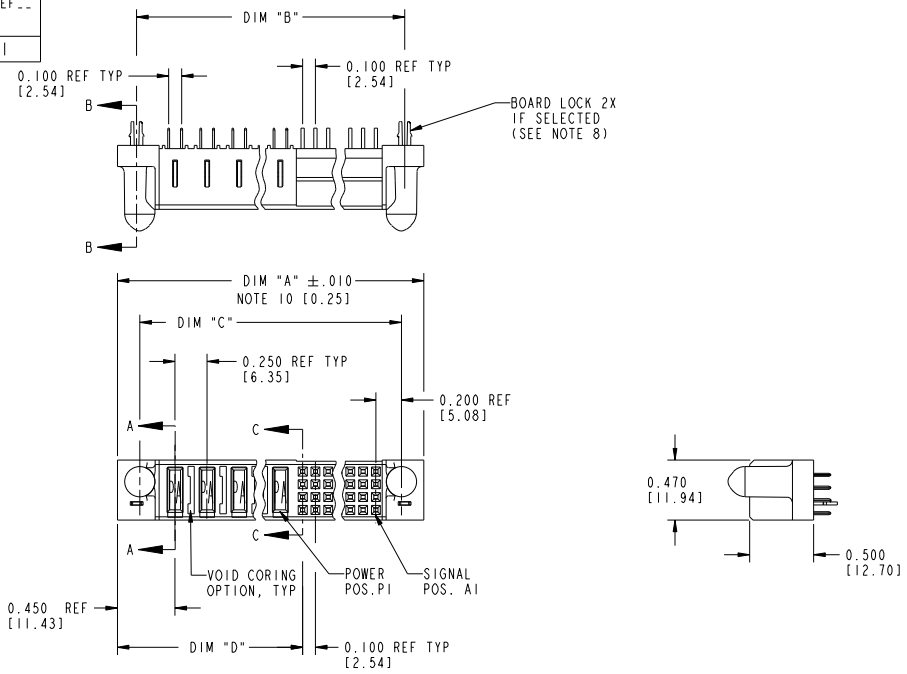
PRODUCT NUMBER
51741-A00CCCDDEF__ NOTE(1)
SEE NOTE 1



mat'l code	SEE NOTE 2

ltr	ecn no.	dr	date
H	DG05-0076	SW	04/11/05
J	DG05-0153	SJ	06/09/05
K	DG05-0479	CS	11/18/05
L	DG08-0239	JC	09/11/08

sheet index	revision	L	L
	sheet	1	2

tolerances unless otherwise specified		
linear	.XX±.01/0.X±0.3	
	.XXX±.005/0.XX±0.13	
	.XXXX±.0020/.XXX±.051	
angles	0°±2°	
dr	D. EATON	05-25-99
engr	J. BROWN	05-24-99
chr	J. BROWN	05-26-99
appd	J. BROWN	05-26-99

L
3

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projection

INCH/MM

scale 1:1

FCI www.fciconnect.com

title: VERTICAL RECEPTACLE W/ GUIDE PIN SIGNAL / POWER

product family: PWRBLADE | code: 213

size: A | dwg no: 51741 | sheet: 1 of 3

cage code: 22526

Pro/E

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PRODUCT NUMBER
51741-A00CCCDDEF__ NOTE (1)
SEE NOTE 1

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

CONNECTOR NOTES

(1.) PRODUCT NUMBER CODE:
51741 - A 00 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)
- ALWAYS '00' (ZERO, ZERO) (NOTE 4)
- PLATING (NOTE 3)
- BASE NUMBER

(2.) HOUSING MATERIAL: GLASS FILLED V-O HIGH TEMP THERMO PLASTIC.
SIGNAL CONTACT MATERIAL: COPPER ALLOY
POWER CONTACT MATERIAL: COPPER ALLOY

(3.) PLATING OPTION:
I = SEE PRINT 10064183 FOR PLATING SPEC OF 51741-I00CCCDDEF; 51741-I00CCCDDEFLF

(4.) THIS PART NOT AVAILABLE WITH RIGHT SIDE POWER CONTACTS.

(5.) SIGNAL CONTACTS, 004 TO 148 AVAILABLE.

(6.) LEFT END POWER CONTACTS, 01 TO 20 AVAILABLE.
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.

(7.) TAIL OPTIONS:
A = .135±.010 [3.43±.25] SOLDER TO BOARD
C = .135±.010 [3.43±.25] PRESS FIT

(8.) RETENTION TO PCB OPTIONS:
A = BOARD LOCK (REQUIRES .098 + .002, -.001 [2.49 +0.05, -0.03] THRU HOLE IN PCB)
BOARD LOCK TO BE USED IN CONJUNCTION WITH AN .092 PCB OR THICKER.
C = NO RETENTION FEATURE (ALL PRESS FIT).

(9.) MANUFACTURE'S NAME, P/N, AND DATE CODE TO APPEAR ON THIS SURFACE.

(10.) THE MAXIMUM OVERALL LENGTH (DIM A) OF A PART IS 8.00 [203.2].

11. PRODUCT SPECIFICATION GS-12-149.

12. REFERENCE 51698 FOR SPECIALS WORKSHEET.

PCB NOTES:

13. ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.

14. ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF .004 [0.01]

15. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

16. 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.

17 A (1) 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

ltr	ecn no.	dr	date
L			

tolerances unless otherwise specified	
linear	.XX±.01/0.X±0.3
	.XXX±.005/0.XX±0.13
	.XXXX±.0020/.XXX±.051
angles	0°±2°

dr	D. EATON	05-25-99
engr	J. BROWN	05-24-99
chr	J. BROWN	05-26-99
appd	J. BROWN	05-26-99

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projection
INCH/MM
scale 1:1

FCI www.fciconnect.com
title: VERTICAL RECEPTACLE W/ GUIDE PIN SIGNAL / POWER
product family: PWRBLADE
code: 213
size: A
dwg no: 51741
sheet: 2

sheet index | revision sheet

cage code 22526

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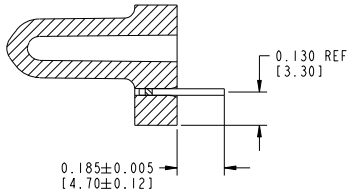
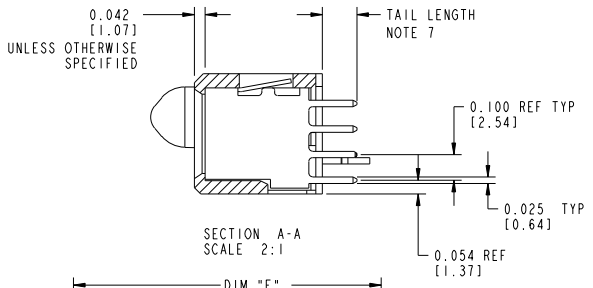
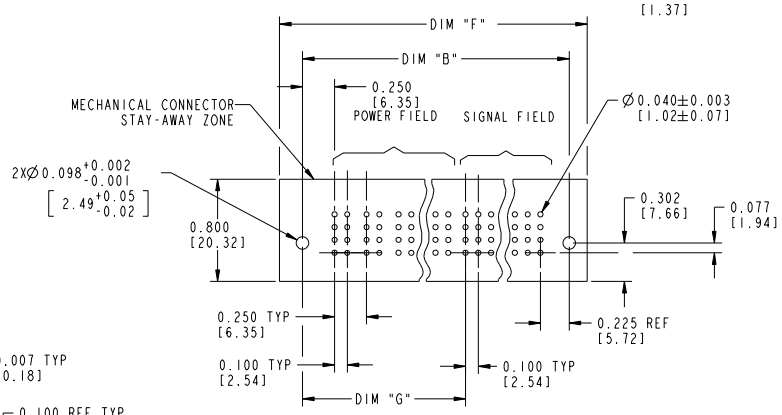
PRODUCT NUMBER
51741-A00CCCDDEF__ NOTE (1)
SEE NOTE 1



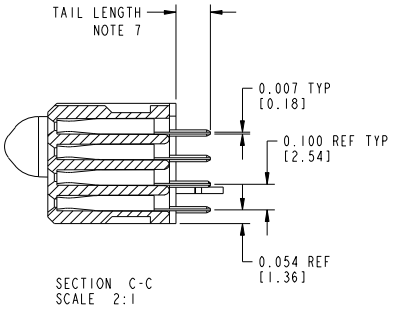
SECTION B-B
SCALE 2:1



SECTION A-A
SCALE 2:1



RECOMMENDED PCB LAYOUT



SECTION C-C
SCALE 2:1

mat'l code	SEE NOTE 2	tolerances unless otherwise specified	CUSTOMER	FCI www.fciconnect.com
ltr / ecn no. / dr / date		linear .XX±.01/0.X±0.3; .XXX±.005/0.XX±0.13; .XXXX±.0020/.XXX±.051	COPY	title: VERTICAL RECEPTACLE W/ GUIDE PIN SIGNAL / POWER
L		angles 0°±2°	projection	product family: PWRBLADE; code: 213
		dr D. EATON 05-25-99	INCH/MM	size: A; dwg no: 51741; sheet: 3
		engr J. BROWN 05-24-99	scale 1:1	
		chr J. BROWN 05-26-99		
		appd J. BROWN 05-26-99		
sheet index / revision sheet				cage code 22526

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