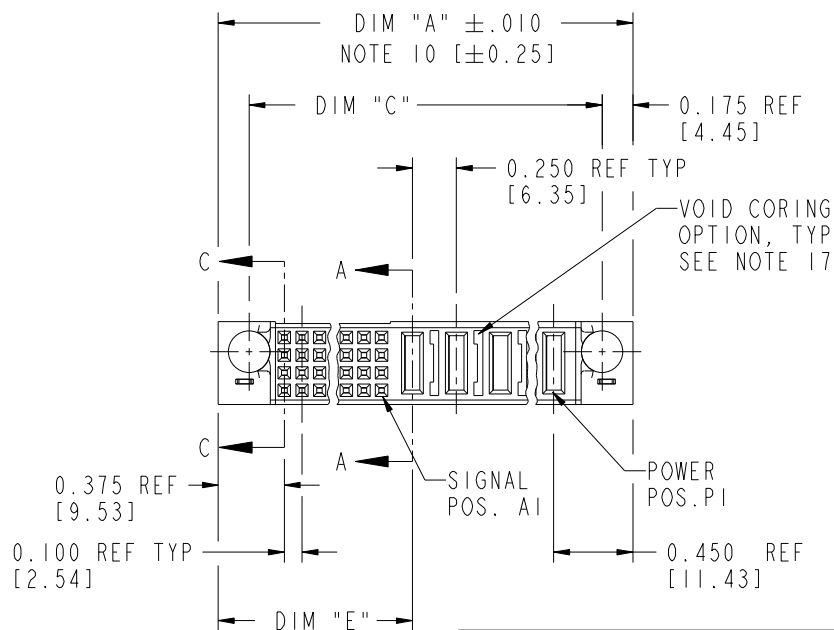
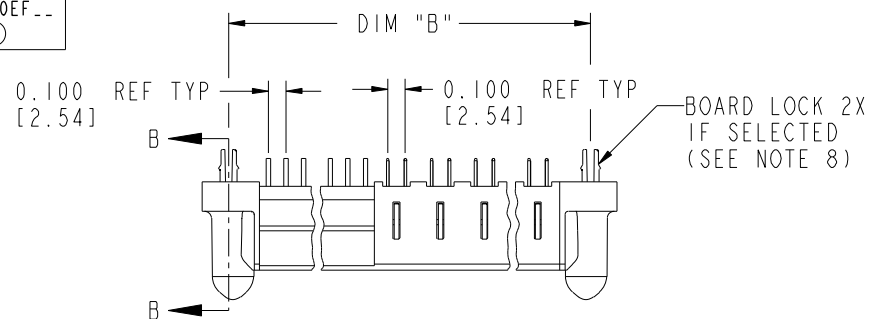


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PRODUCT NUMBER
51742-ABBCC00EF--
NOTE: ①



mat'l code				SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
litr	ecn no.	dr	date	linear		.XX±.01/0.X±0.3		COPY		projection		title	VERTICAL RECEPTACLE W/GUIDE PIN POWER / SIGNAL
H	DG05-0132	SJ	06/02/05			.XXX±.005/0.XX±0.13						product family	PWRBLADE
J	DG05-0153	SJ	06/10/05			.XXX±.0020/.XX±.051						size	dwg no
K	DG06-0362	JULIA	08/30/06	angles		0°±2°						code	213
L	DG08-0239	JC	09/11/08	dr		D. EATON 05-25-99						sheet	1 of 3
				enr		J. BROWN 05-24-99							
				chr		J. BROWN 05-26-99							
				appd		J. BROWN 05-26-99							
sheet index	revision sheet	L	L	L									
		1	2	3									

Pro/E

cage code 22526



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B

A

PRODUCT NUMBER		DIM	LENGTH FORMULAS (SEE NOTE 10)
51742-ABBCCC00EF-- NOTE: ①		DIM "A"	.100 [2.54] x (CCC/4) + .250 [6.35] x BB + .650 [16.51] (NOTE 10)
		DIM "B"	.100 [2.54] x (CCC/4) + .250 [6.35] x BB + .350 [8.89]
		DIM "C"	.100 [2.54] x (CCC/4) + .250 [6.35] x BB + .300 [7.62]
		DIM "E"	.100 [2.54] x (CCC/4) + .450 [11.43]
		DIM "F"	.100 [2.54] x (CCC/4) + .250 [6.35] x BB + .680 [17.27]
		DIM "H"	.100 [2.54] x (CCC/4) + .250 [6.35]

CONNECTOR NOTES

1. PRODUCT NUMBER CODE:
51742 - A BB CCC 00 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)
ALWAYS '00' (ZERO, ZERO) (NOTE 6)
NUMBER OF SIGNAL CONTACTS (NOTE 5)
NUMBER OF RIGHT POWER CONTACTS (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:
SEE PRINT 10064183 FOR PLATING SPEC OF 51742-1BBCCC00EF; 51742-1BBCCC00EFLF

4. RIGHT END POWER CONTACT, 01 TO 20 AVAILABLE.
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.

5. SIGNAL CONTACTS, 004 TO 148 AVAILABLE.

6. THIS PART NOT AVAILABLE WITH LEFT SIDE POWER CONTACTS.

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) (NOT AVAILABLE WITH PRESS FIT).
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. THE VOID CORING IN BETWEEN POWER MODULES, SIGNAL MODULES AND END MODULES ARE OPTIONAL AND THE SHAPE MAY BE DIFFERENT FOR OPTIMIZING THE MOLDING PROCESS. THE VOID CORING WILL NOT EFFECT TO PRODUCT FUNCTION.

18. A ①SYMBOL 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 otherwise specified		CUSTOMER		FCI		www.fciconnect.com		
litr	ecn no.	dr	date	linear	angles	dr	enrg	chr	appd	COPY	projection	title	product family	code
						D. EATON	05-25-99					VERTICAL RECEPTACLE W/GUIDE PIN POWER / SIGNAL	PWRBLADE	
						J. BROWN	05-24-99						size	213
						J. BROWN	05-26-99						dwg no	sheet
						J. BROWN	05-26-99						51742	2 of 3
sheet index	revision sheet													

sheet index

revision sheet

Pro/E

3

cage code 22526

4

A

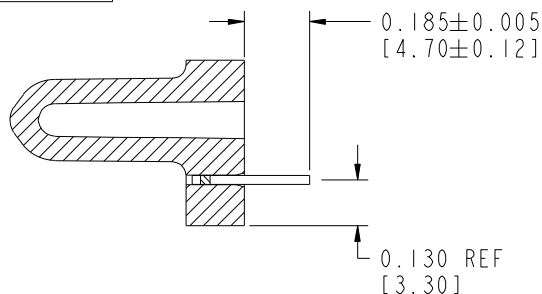
B

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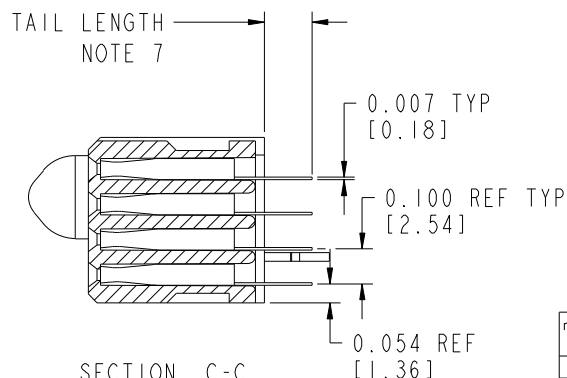


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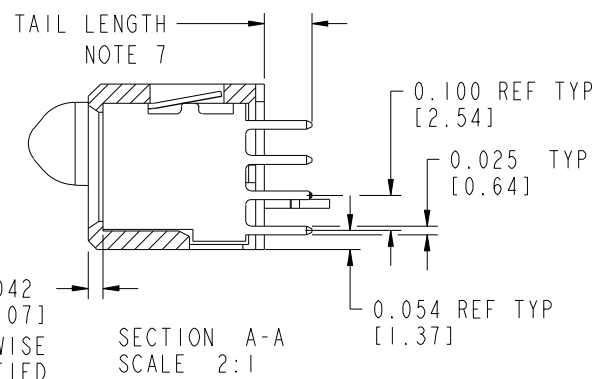
PRODUCT NUMBER
51742-ABBCCC00EF--
NOTE: ①



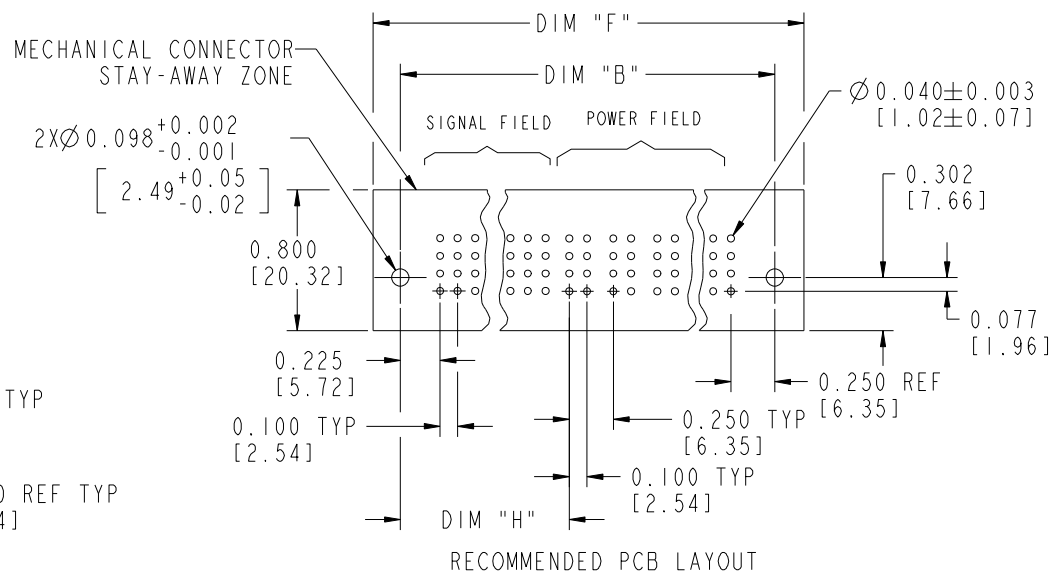
SECTION B-B
SCALE 2:1



SECTION C-C
SCALE 2:1



SECTION A-A
SCALE 2:1



RECOMMENDED PCB LAYOUT

mat'l code				SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
litr	ecn no.	dr	date			linear	.XX±.01/.0.X±0.3	COPY		projection		title	
L							.XXX±.005/.0.XX±0.13					VERTICAL RECEPTACLE W/GUIDE PIN	
						angles	.XXX±.0020/.XXX±.051					POWER / SIGNAL	
						dr	0°±2°					product family	PWRBLADE
						enrg	D. EATON 05-25-99					size	213
						chr	J. BROWN 05-24-99					dwg no	51742
						appd	J. BROWN 05-26-99					scale	3 of 3
							J. BROWN 05-26-99						
sheet index	revision sheet												

Pro/E

cage code 22526