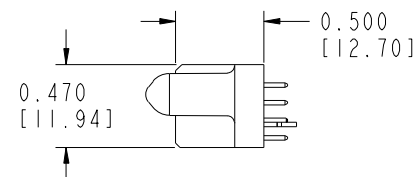
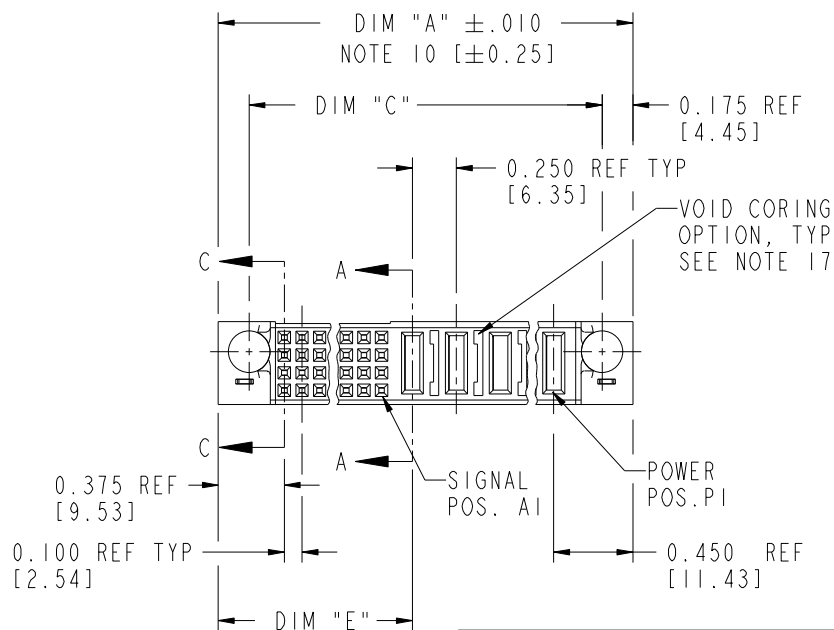
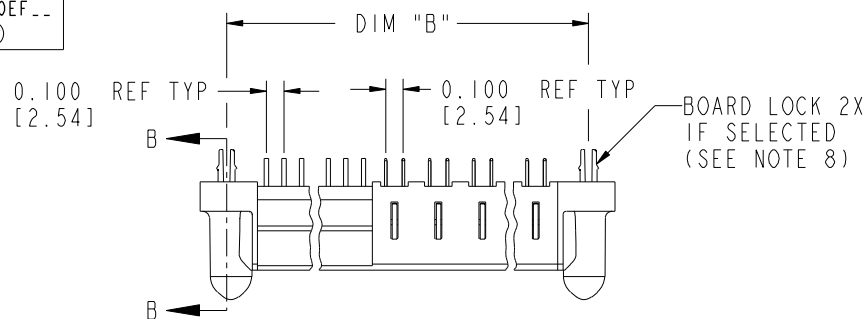


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PRODUCT NUMBER
51742-ABBCC00EF--
NOTE: ①



mat'l code				SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER				www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX±.01/0.XX±0.3		COPY			title	VERTICAL RECEPTACLE W/GUIDE PIN POWER / SIGNAL		
H	DG05-0132	SJ	06/02/05		.XXX±.005/0.XX±0.13								
J	DG05-0153	SJ	06/10/05	angles	.XXX±.0020/.XXX±.051					product family	PWRBLADE		
K	DG06-0362	JULIA	08/30/06		0°±2°								
L	DG08-0239	JC	09/11/08	dr	D. EATON 05-25-99		INCH/MM		size	dwg no	code		
				enr	J. BROWN 05-24-99		scale						
				chr	J. BROWN 05-26-99		1:1		A	51742	213		
				appd	J. BROWN 05-26-99								
sheet index		revision sheet		L	L	L							
				1	2	3							

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PRODUCT NUMBER	DIM	LENGTH FORMULAS (SEE NOTE 10)
51742-ABBCC00EF_- 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

- Diagram illustrating the dimensions and features of a 16-pin connector housing. The housing is shown in cross-section with various dimensions and features labeled. The dimensions are given in inches and millimeters. The features are described in text.

Dimensions and Features:

 - 1. PRODUCT NUMBER: 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 SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

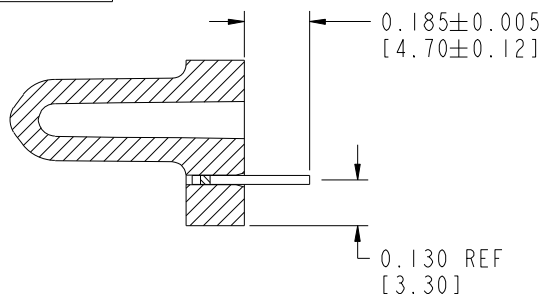
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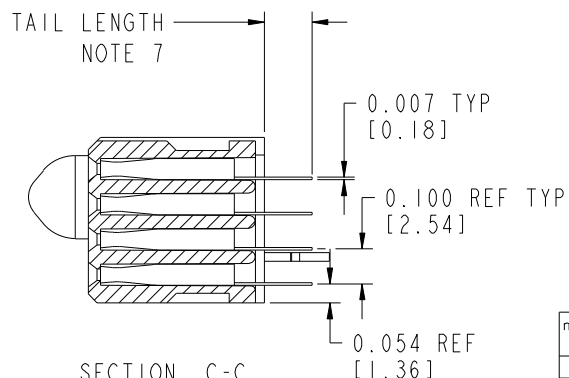


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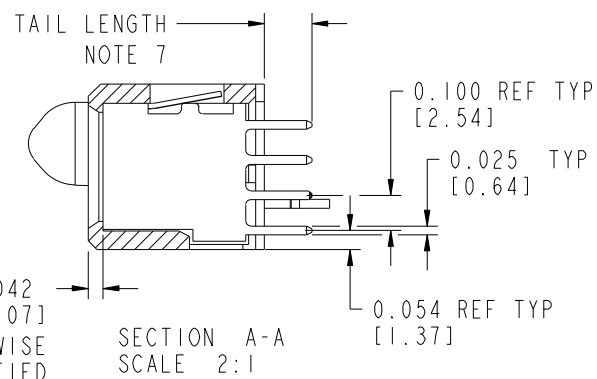
PRODUCT NUMBER
51742-ABBCCC00EF--
NOTE: ①



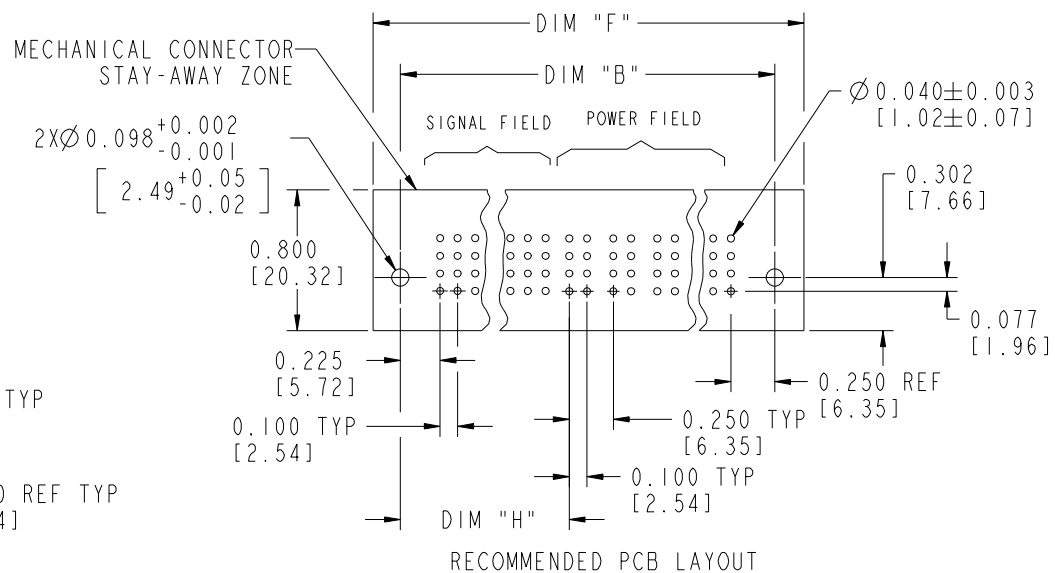
SECTION B-B
SCALE 2:1



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	
ltr	ecn no.	dr	date	linear		.XX±.01/0.X±0.3		COPY		projection			title
L						.XXX±.005/0.XX±0.13				INCH/MM			VERTICAL RECEPTACLE W/GUIDE PIN
				angles		.XXX±.0020/.XX±.051				scale			POWER / SIGNAL
				dr	D. EATON	05-25-99				product family		PWRBLADE	code
				enr	J. BROWN	05-24-99				size	dwg no	213	sheet
				chr	J. BROWN	05-26-99				A	51742	3 of 3	
				appd	J. BROWN	05-26-99							
sheet index		revision sheet											

Pro/E

cage code 22526