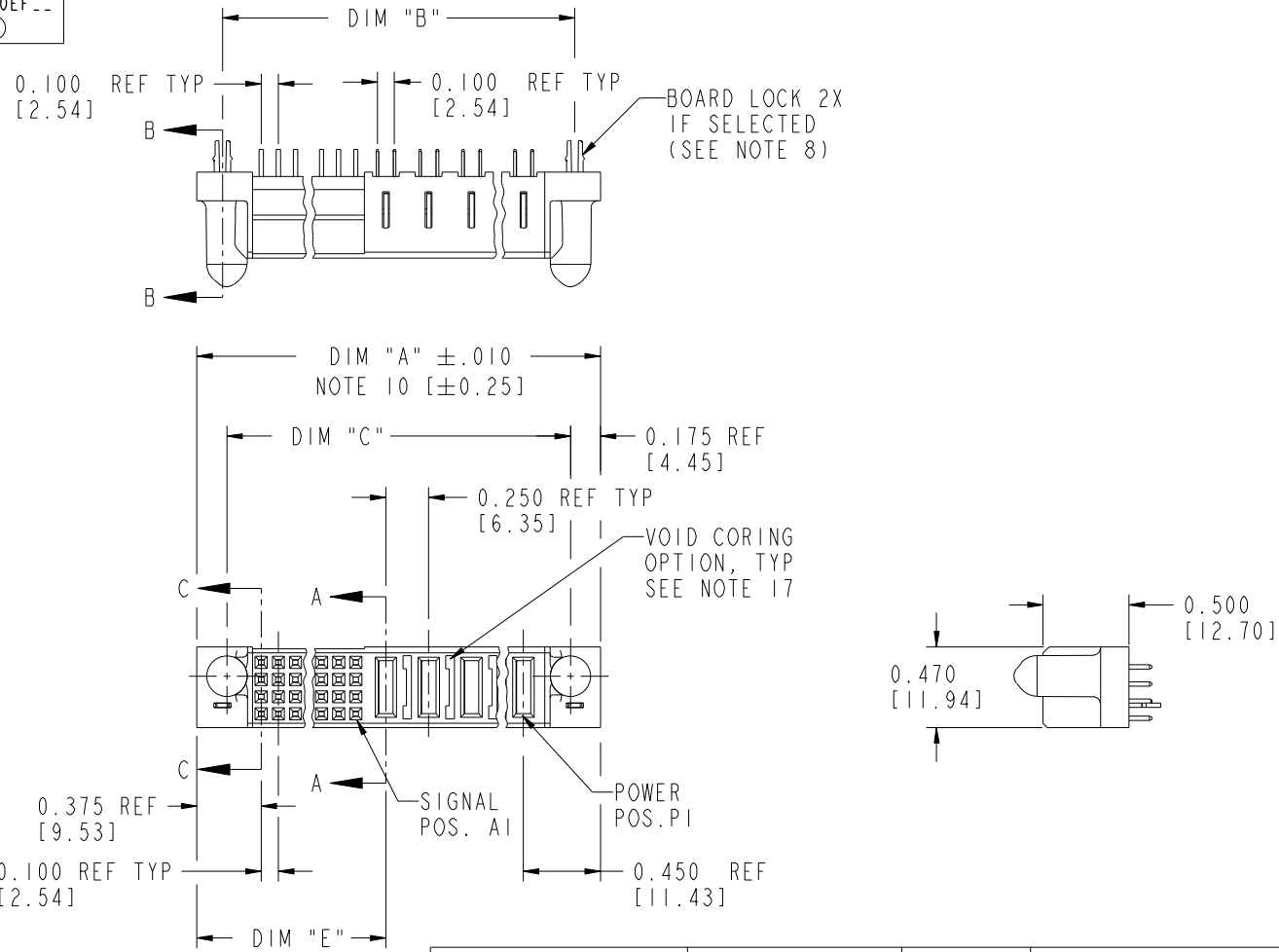


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PRODUCT NUMBER  
51742-ABBCC00EF--  
NOTE: ①



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

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PRODUCT NUMBER
51742-ABBCC00EF-- NOTE: ①

DIM	LENGTH FORMULAS (SEE NOTE 10)
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

- 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
  - HOUSING MATERIAL: GLASS FILLED V-O HIGH TEMP THERMO PLASTIC.

SIGNAL CONTACT MATERIAL: COPPER ALLOY

POWER CONTACT MATERIAL: COPPER ALLOY
  - PLATING OPTION:

SEE PRINT 10064183 FOR PLATING SPEC OF 51742-1BBCC00EF; 51742-1BBCC00EFLF
  - RIGHT END POWER CONTACT, 01 TO 20 AVAILABLE.

MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.
  - SIGNAL CONTACTS, 004 TO 148 AVAILABLE.
  - THIS PART NOT AVAILABLE WITH LEFT SIDE POWER CONTACTS.
  - TAIL OPTIONS:

A = .135 ± .010 [3.43 ± .25] SOLDER TO BOARD

C = .135 ± .010 [3.43 ± .25] PRESS FIT
  - 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).
  - 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.
  - 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.
  - A ① SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

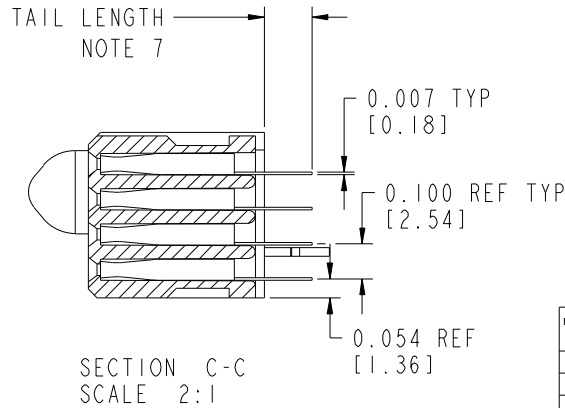
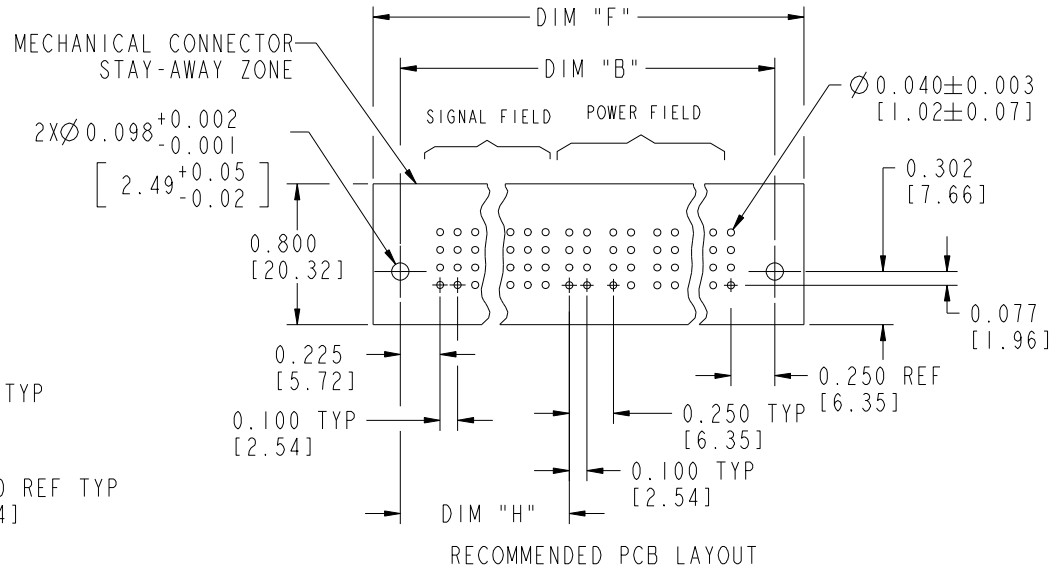
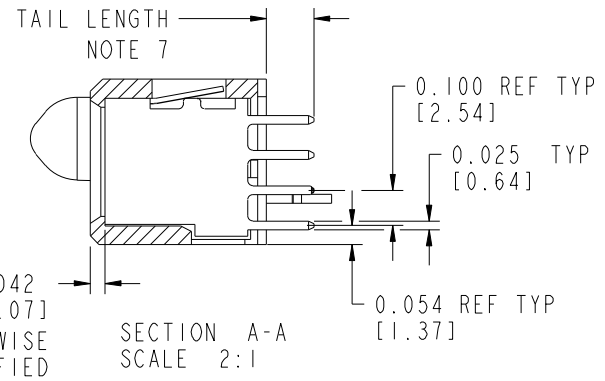
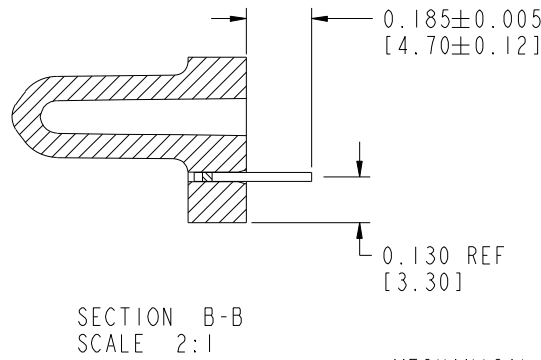
mat'l code				SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	.XX±.01/0.X±0.3		COPY		projection	title			VERTICAL RECEPTACLE W/GUIDE PIN POWER / SIGNAL
L					.XXX±.005/0.XX±0.13		INCH/MM			product family		PWRBLADE	
				angles	.XXX±.0020/.XX±.051		1:1		size		dwg no		213
					0° ± 2°		scale		A		51742		sheet
				dr	D. EATON	05-25-99							2 of 3
				enr	J. BROWN	05-24-99							
				chr	J. BROWN	05-26-99							
				appd	J. BROWN	05-26-99							
sheet index	revision sheet												

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PRODUCT NUMBER  
51742-ABBCCC00EF--  
NOTE: ①



mat'l code		SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER		FCI	
ltr	ecn no.	dr	date	linear	.XX±.01/0.X±0.3	COPY		www.fciconnect.com	
L				angles	.XXX±.005/0.XX±0.13	projection		title	
				dr	.XXX±.0020/.XX±.051	INCH/MM		VERTICAL RECEPTACLE W/GUIDE PIN POWER / SIGNAL	
				enr	0° ± 2°	scale		product family	
				chr	D. EATON 05-25-99	1:1		PWRBLADE	
				appd	J. BROWN 05-24-99	A		code	
					J. BROWN 05-26-99			size	
sheet index	revision sheet							dwg no	
								51742	
								213	
								3 of 3	

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[>>FCI / Amphenol ICC](#)