

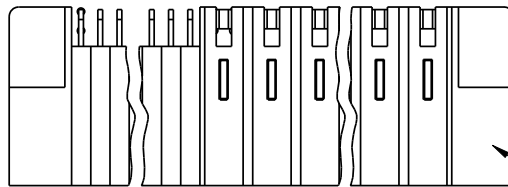
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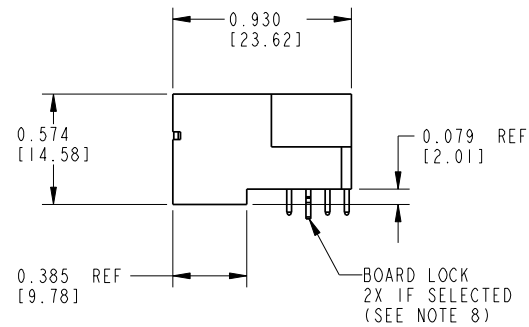
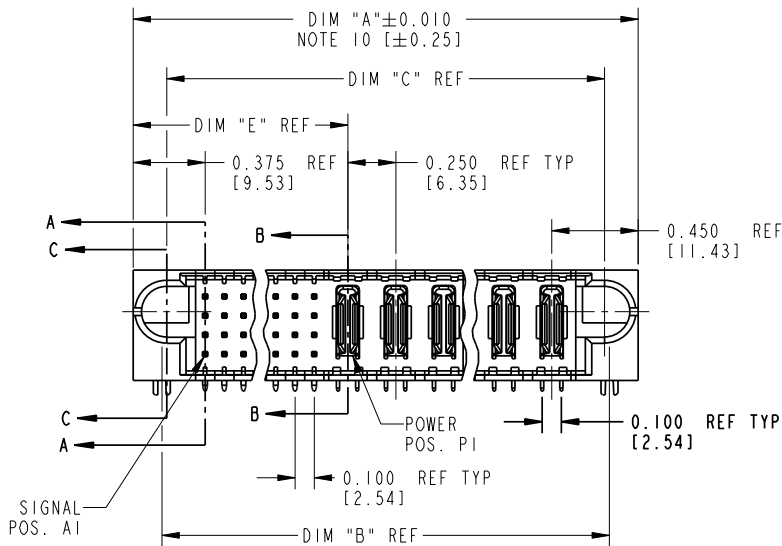
FCI

PRODUCT NUMBER

51731- YYY--
NOTE: 3



SEE NOTE 9



mat'l code				NOTE 2		tolerances unless otherwise specified		CUSTOMER COPY		A FCI www.fciconnect.com	
lfr	ecr no.	dr	date	linear	angles	.XX $\pm$.01/.X $\pm$.3	.XXX $\pm$.005/.XX $\pm$.13	projection	INCH / MM	title	RIGHT ANGLE HEADER w/GUIDE PIN SIGNAL / POWER SPECIAL
A	V02387	JRW	10-03-00			.XXX $\pm$.0020/.XX $\pm$.051	0° $\pm$ 2°		1:1	product family	PwrBlade
B	V02550	JWS	11-1-00							size	dwg no
C	V20495	JWS	03-21-02							A	51731
D	DG05-0531	GuoJM	12/15/05	dr	enrg	chr	appd	C. BAROT	06-12-00	J. BROWN	06-12-00
								J. BROWN	06-12-00		
								J. BROWN	06-12-00		
sheet	revision	D	D	D	D						
index	sheet	1	2	3	4						

form no. 7530-001-103

1 2

PDM: Rev: D

STAT: US: Released

Printed: Dec 20, 2010

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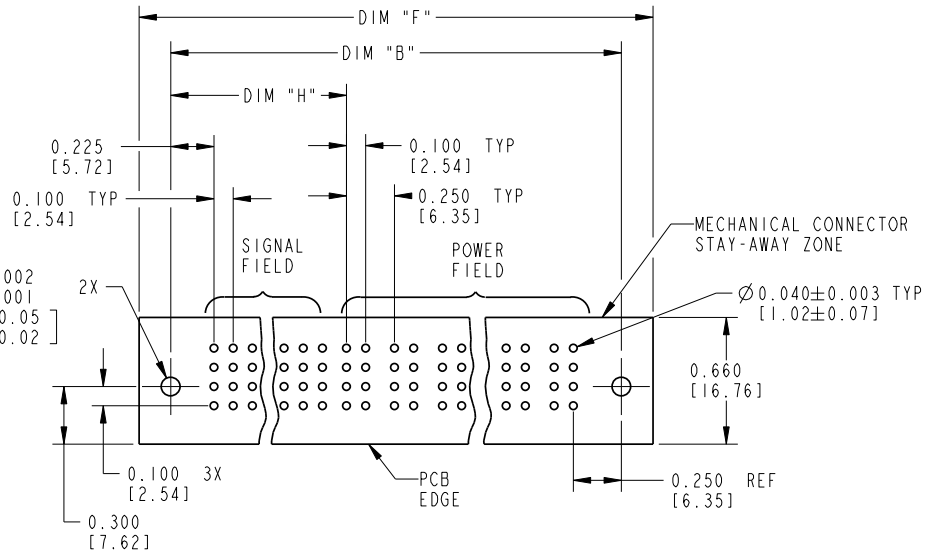
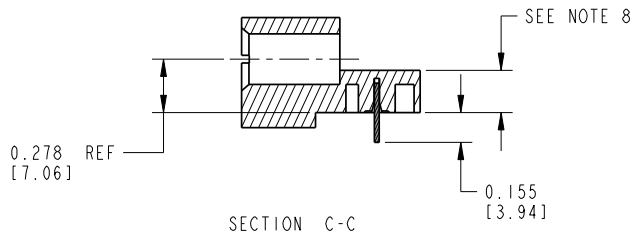
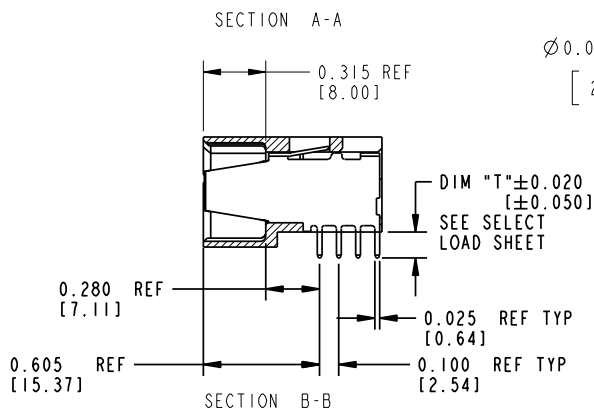
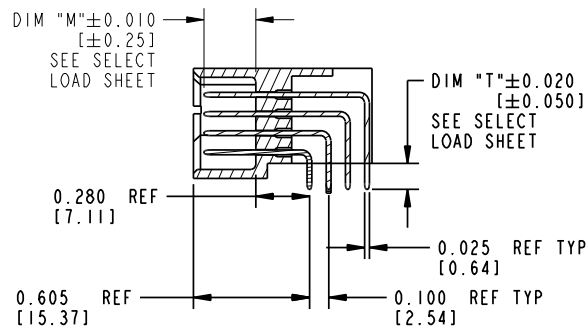
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PRODUCT NUMBER

51731-YYY--

NOTE: 3



RECOMMENDED PCB LAYOUT

NOTE 2				tolerances unless otherwise specified		CUSTOMER COPY		A FCI www.fciconnect.com	
lir	ecn no.	dr	date	linear	.XX±.01/.X±.3	projection		title	
D					.XXX±.005/.XX±.13			RIGHT ANGLE HEADER w/GUIDE PIN	
				angles	.XXX±.0020/.XX±.051			SIGNAL / POWER SPECIAL	
					0°±2°			product family	
				dr	C. BAROT 06-12-00			PwrBlade	
				enr	J. BROWN 06-12-00			code	
				chr	J. BROWN 06-12-00			213	
				appd	J. BROWN 06-12-00			SHEET	
								3	
sheet index	revision sheet								

form no. 7530-001-103

PDM: Rev: D

STAT: Released

Printed: Dec 20, 2010

FCI

PRODUCT NUMBER		CONNECTOR NOTES:	
51731-YYY-- NOTE: 3		1. PRODUCT NUMBER CODE FOR SELECT LOAD PART NUMBERS 51731 - YYY-- NO THIS SUFFIX: 100u"/2.54um SnPb ON PCB INTERFACE ADD THIS SUFFIX: 78u"/2.00um Sn OR 5u" Au ON PCB INTERFACE SEQUENCE NUMBER (NOTE 12) BASE NUMBER	
		2. HOUSING MATERIAL: UL 94 V-O GLASS FILLED HIGH TEMP THERMOPLASTIC. SIGNAL CONTACT MATERIAL: COPPER ALLOY POWER CONTACT MATERIAL: COPPER ALLOY	
		3. PLATING: 51731-YYY Signal Pin: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA. AND 100u"/2.54um SnPb PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION. Power Pin: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA. AND 100u"/2.54um SnPb PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION. 51731-YYLFF Signal Pin: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA. AND 78u"/2.00um Sn PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION. Power Pin: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA. AND 78u"/2.00um Sn PLATING OVER 50u"/1.27um Ni ON THE TERMINATION SECTION.	
4. THIS PART NOT AVAILABLE WITH LEFT SIDE POWER CONTACTS.		PART NUMBER 51731-YYLFF MEETS EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.	
5. SIGNAL CONTACTS, 004 TO 148 AVAILABLE.		THE HOUSING WILL WITHSTAND EXPOSURE TO 260° PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A CIRCUIT BOARD.	
6. RIGHT END POWER CONTACTS, 01 TO 20 AVAILABLE. MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.			
7. TAIL LENGTH: 0.135 ±0.020 [3.43 ±0.50] SOLDER TO BOARD			
8. RETENTION TO PCB OPTIONS: BOARD LOCK (REQUIRES Ø0.098 +0.002/-0.001 [2.49 +0.05/-0.03] THRU HOLE IN PCB). MOUNTING FOOT THICKNESS: 0.220 [5.59] OR Ø0.150 [3.81] THRU HOLE (REQUIRES Ø0.158±0.003 [4.01±0.07] THRU HOLE IN PCB). MOUNTING FOOT THICKNESS: 0.160 [4.06]			
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 51697 FOR SELECT LOAD/FMLB WORKSHEET. SEE PRODUCT SPECIFIC DRAWING 51731-YYY FOR SELECT LOAD/FMLB PRODUCT INFORMATION.			
PCB NOTES:			
13. ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.			
14. ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF 0.004 [0.10]			
15. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.			
16. Ø0.098 [2.49] THROUGH HOLES ARE UNPLATED			
17. Ø0.0453 ±0.0010 [1.151 ±0.025] DRILLED HOLES PLATED WITH 0.0003 [0.007] MIN SnPb OVER 0.001 [0.03] TO 0.003 [0.08] Cu PLATING TO ACHIEVE A Ø0.040±0.003 [1.02±0.07] HOLE.			
		NOTE 2	
		tolerances unless otherwise specified	
		CUSTOMER	
		COPY	
		projection	
		INCH / MM	
		scale 1:1	
		product family PwrBlade	
		size dwg no 51731	
		code 213	
		sheet 4	
		cage code 22506	
		STAT	
		Printed: Dec 20, 2010	