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FCI

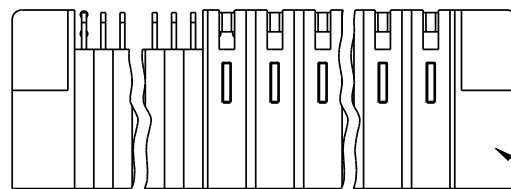
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A

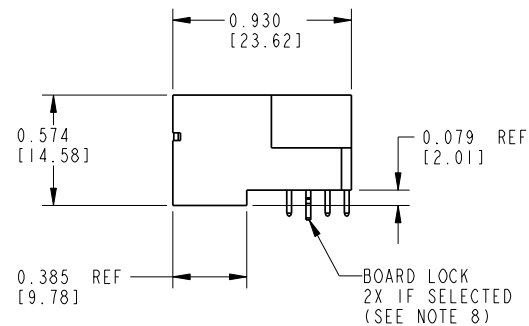
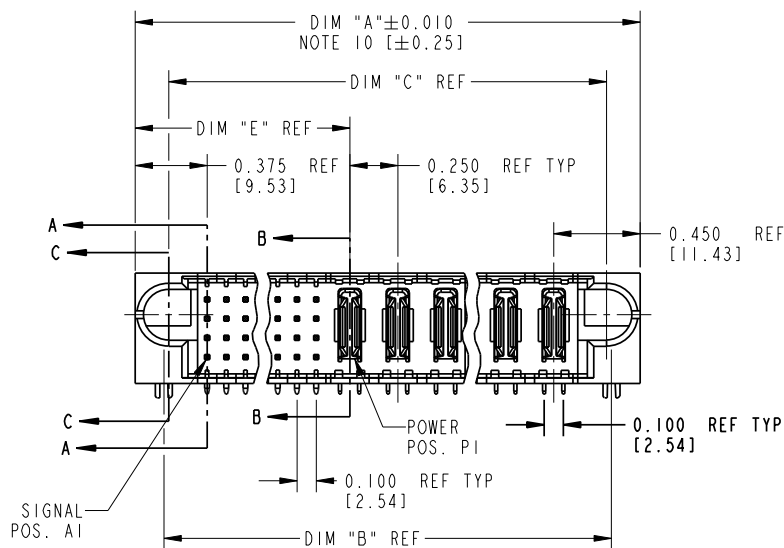
B

PRODUCT NUMBER

51731- YYY--
NOTE: 3



SEE NOTE 9



A

B

mat'l code				NOTE 2		tolerances unless otherwise specified		CUSTOMER COPY		A FCI www.fciconnect.com	
lir	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		1:1	product family	PwrBlade
B	V02550	JWS	11-1-00							size	213
C	V20495	JWS	03-21-02							dwg no	51731
D	DG05-0531	GuoJM	12/15/05								SHEET 1 OF 4
				dr	engr	chr	appd				
				C. BAROT	J. BROWN	J. BROWN	J. BROWN				
				06-12-00	06-12-00	06-12-00	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: Released

Printed: Dec 20, 2010

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PRODUCT NUMBER		DIM		LENGTH FORMULAS (SEE NOTE 10)									
51731-YYY-- NOTE: 3		DIM "A"		.100 [2.54] x (CCC/4) + .250 [6.35] x DD + .650 [16.51](NOTE 10)									
		DIM "B"		.100 [2.54] x (CCC/4) + .250 [6.35] x DD + .350 [8.89]									
		DIM "C"		.100 [2.54] x (CCC/4) + .250 [6.35] x DD + .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 DD + .680 [17.27]									
		DIM "H"		.100 [2.54] x (CCC/4) + .250 [6.35]									

CODE	DIM "M"	DIM "T"	TAIL TYPE	CONTACT TYPE
E	0.220 [5.59]	0.135 [3.43]	SOLDER	SIGNAL
F	0.220 [5.59]	0.135 [3.43]	SOLDER	SIGNAL
G	0.220 [5.59]	0.135 [3.43]	SOLDER	SIGNAL
H	0.220 [5.59]	0.135 [3.43]	SOLDER	SIGNAL
R	0.270 [6.86]	0.135 [3.43]	SOLDER	SIGNAL
S	0.270 [6.86]	0.135 [3.43]	SOLDER	SIGNAL
T	0.270 [6.86]	0.135 [3.43]	SOLDER	SIGNAL
U	0.270 [6.86]	0.135 [3.43]	SOLDER	SIGNAL
PA	N/A	0.135 [3.43]	SOLDER	POWER
HA	N/A	N/A	N/A	HOLD-DOWN
X	OMITTED	OMITTED	OMITTED	OMITTED

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 RIGHT ANGLE HEADER w/GUIDE PIN SIGNAL / POWER SPECIAL	
D					.XXX±.005/.XX±.13				
					.XXX±.0020/.XXX±.051				
				angles	0°±2°		INCH / MM scale 1:1	product family PwrBlade size dwg no A 51731	
				dr	C. BAROT	06-12-00			
				enr	J. BROWN	06-12-00			
				chr	J. BROWN	06-12-00			
				appd	J. BROWN	06-12-00			
sheet index	revision sheet							code 213 SHEET 2	

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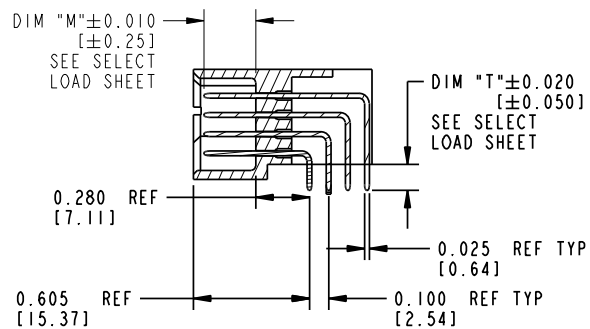
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B

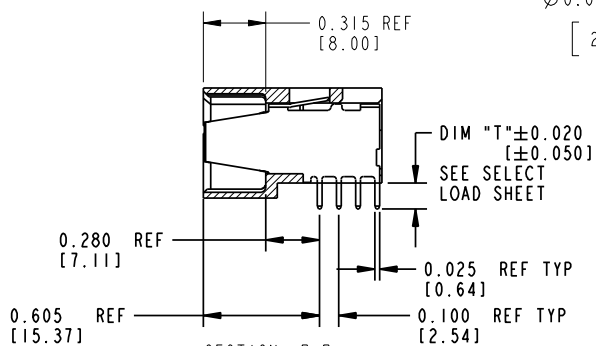
PRODUCT NUMBER

51731-YYY--

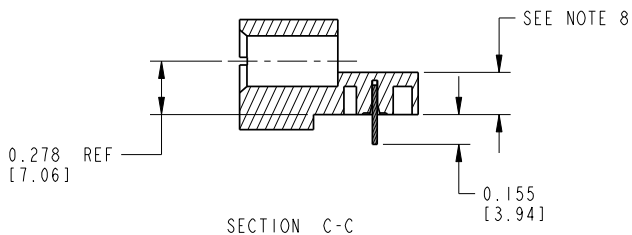
NOTE: 3



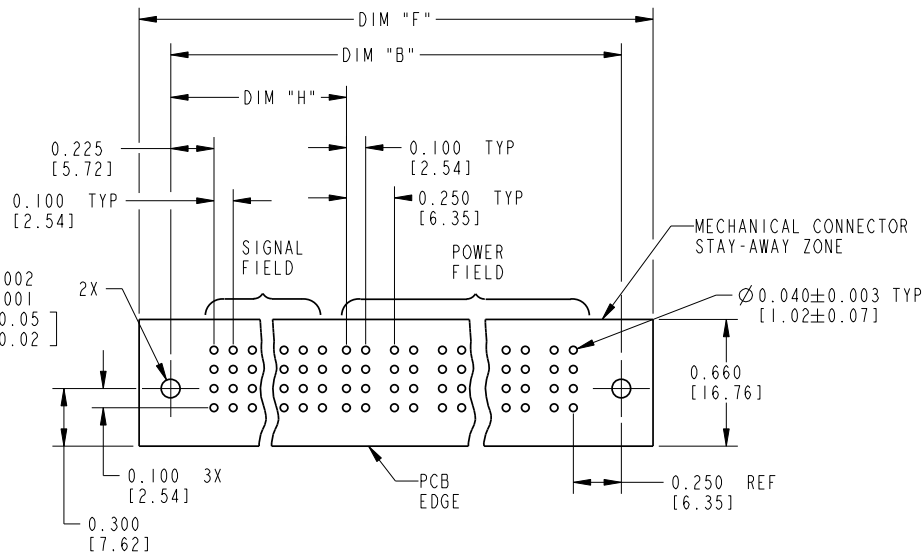
SECTION A-A



SECTION B-B



SECTION C-C



RECOMMENDED PCB LAYOUT

mat'l code				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 RIGHT ANGLE HEADER w/GUIDE PIN SIGNAL / POWER SPECIAL			
D					.XXX±.005/.XX±.13						
					.XXX±.0020/.XXX±.051						
				angles	0°±2°		INCH / MM  scale 1:1	product family PwrBlade	code 213		
			dr	C. BAROT	06-12-00						
			enr	J. BROWN	06-12-00						
			chr	J. BROWN	06-12-00						
				appd	J. BROWN	06-12-00	size A		dwg no 51731		SHEET 3
sheet index	revision sheet										

B

FCI

A

B

PRODUCT NUMBER	51731-YYY-- NOTE: 3
CONNECTOR NOTES:	
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-0 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.	
5. SIGNAL CONTACTS, 004 TO 148 AVAILABLE.	
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		A FCI www.fciconnect.com	
lir	ecr no.	dr	date	linear	.XX±.01/.XX±.3	COPY		title	
D					.XXX±.005/.XX±.13	projection		RIGHT ANGLE HEADER w/GUIDE PIN SIGNAL / POWER SPECIAL	
				angles	.XXX±.0020/.XXX±.051	INCH / MM		product family	
				dr	0°±2°	scale		PwrBlade	
				enrg	C. BAROT 06-12-00	1:1		code	
				chr	J. BROWN 06-12-00			213	
				appd	J. BROWN 06-12-00			sheet	
sheet	revision							4	
index	sheet								

A

B