

Excellent Integrated System Limited

Stocking Distributor

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[FCI](#)
[51700-10402404AALF](#)

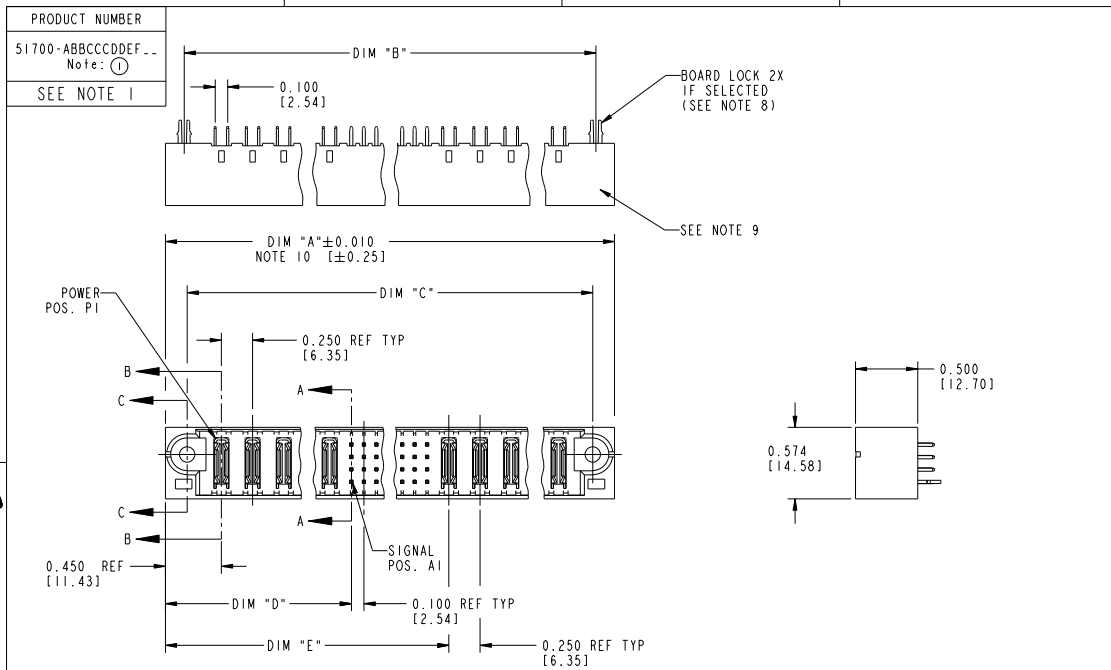
For any questions, you can email us directly:

sales@integrated-circuit.com

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mat'l code				NOTE 2		tolerances unless otherwise specified		CUSTOMER		FCI	
lfr	ecn no.	dr	date			.XX $\pm$.01/0.XX $\pm$ 0.3		COPY		www.fciconnect.com	
K	DG05-0132	SJ	05/26/05	linear		.XXX $\pm$.005/0.XX $\pm$ 0.13		projection		title	VERTICAL HEADER w/ GUIDE PIN
L	DG05-0435	SW	11/03/05			.XXX $\pm$.0020/.XXX $\pm$.051				POWER / SIGNAL / POWER	
M	DG05-0485	SudJM	11/21/05	angles		0° $\pm$ 2°		INCH/MM		product family	PWRBLADE
N	DG08-0123	SH	05/19/08	dr	JRW	10-12-01		scale	1:1	size	dwg no
				enr	J. ALLISON	10-12-01				A	51700
				chr	J. ALLISON	10-12-01					213
				appd	J. ALLISON	10-12-01					sheet 1 of 3
sheet index	revision sheet	N 1	N 2	N 3						code code	22526

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PRODUCT NUMBER	DIM	LENGTH FORMULAS (SEE NOTE 10)
51700-ABBCCDDEF	DIM "A"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .650 [16.51] (NOTE 10)
SEE NOTE 1	DIM "B"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .350 [8.89]
	DIM "C"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .300 [7.62]
	DIM "D"	.250 [6.35] x BB + .375 [9.53]
	DIM "E"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .450 [11.43]
	DIM "F"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .680 [17.27]
	DIM "G"	.250 [6.35] x BB + .225 [5.72]
	DIM "H"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35]

CONNECTOR NOTES

- PRODUCT NUMBER CODE:
51700 - A BB CCC DD E F LF
NO THIS SUFFIX: 100u"/2.54um SnPb ON PCB INTERFACE
ADD THIS SUFFIX: 78u"/2.00um Sn OR 5u" Au ON PCB INTERFACE
RETENTION TO PCB (NOTE 8)
TAIL OPTIONS (NOTE 7)
NUMBER OF RIGHT END POWER CONTACTS (NOTE 6)
NUMBER OF SIGNAL CONTACTS (NOTE 5)
NUMBER OF LEFT POWER CONTACTS (NOTE 4)
PLATING (NOTE 3)
BASE NUMBER
- HOUSING MATERIAL: UL 94 V-0 GLASS FILLED HIGH TEMP THERMOPLASTIC
POWER CONTACT MATERIAL: COPPER ALLOY
SIGNAL CONTACT MATERIAL: COPPER ALLOY
- PLATING OPTION:
SEE PRINT 10064183 FOR PLATING SPEC OF 51700-ABBCCDDEF; 51700-ABBCCDDEFL.
- LEFT END POWER CONTACTS, 01 TO 20 AVAILABLE.
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.
- SIGNAL CONTACT, 004 TO 148 AVAILABLE.
- RIGHT END POWER CONTACTS, 01 TO 20 AVAILABLE.
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.
- TAIL OPTIONS:
A = 0.135 +0.015/-0.010 [3.43 +0.38/-0.25] SOLDER TO BOARD
B = 0.165 +0.015/-0.010 [4.19 +0.38/-0.25] SOLDER TO BOARD
C = 0.165 +0.015/-0.010 [4.19 +0.38/-0.25] PRESS FIT
- RETENTION TO PCB OPTIONS:
A = BOARD LOCK (REQUIRES 0.098 +0.002/-0.001 [2.49 +0.05/-0.03] THUR HOLE IN PCB).
RECOMMENDED ON SYMMETRIC CONNECTORS.
BOARD LOCK TO BE USED IN CONJUNCTION WITH A .092 PCB OR THICKER.
C = NO RETENTION FEATURE.
- 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.
- SEE PWRBLADE VERTICAL HEADER SPECIAL WORKSHEET (51696) FOR MATING LENGTH OPTIONS.
- DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5m, 1994 UNLESS OTHERWISE SPECIFIED.
- PCB NOTES:
- ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.
- ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF 0.004 [0.10].
- ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE
- Ø 0.098 [2.49] THROUGH HOLES ARE UNPLATED.
- Ø 0.0453±0.0010 [1.15±0.025] DRILLED HOLES PLATED WITH 0.0003 [0.008] MIN SnPb OVER 0.001 [0.03] TO 0.003 [0.08] Cu PLATING TO ACHIEVE A Ø 0.040±0.003 [1.02±0.07] HOLE.
- FOR PRESSFIT APPLICATION USE FCI CAM TOOL 430169-XXX.
- A Δ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

NOTE 2				tolerances unless otherwise specified		CUSTOMER	
ltr	ecn no.	dr	date	linear	projection	COPY	
N						www.fciconnect.com	
				linear		title VERTICAL HEADER w/ GUIDE PIN POWER / SIGNAL / POWER	
				angles		product family PWRBLADE code 213	
				dr	JRW 10-12-01	size 51700 sheet 2	
				engr	J. ALLISON 10-12-01	scale 1:1	
				chr	J. ALLISON 10-12-01	cage code 22526	
				appd	J. ALLISON 10-12-01		
sheet index	revision sheet						

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