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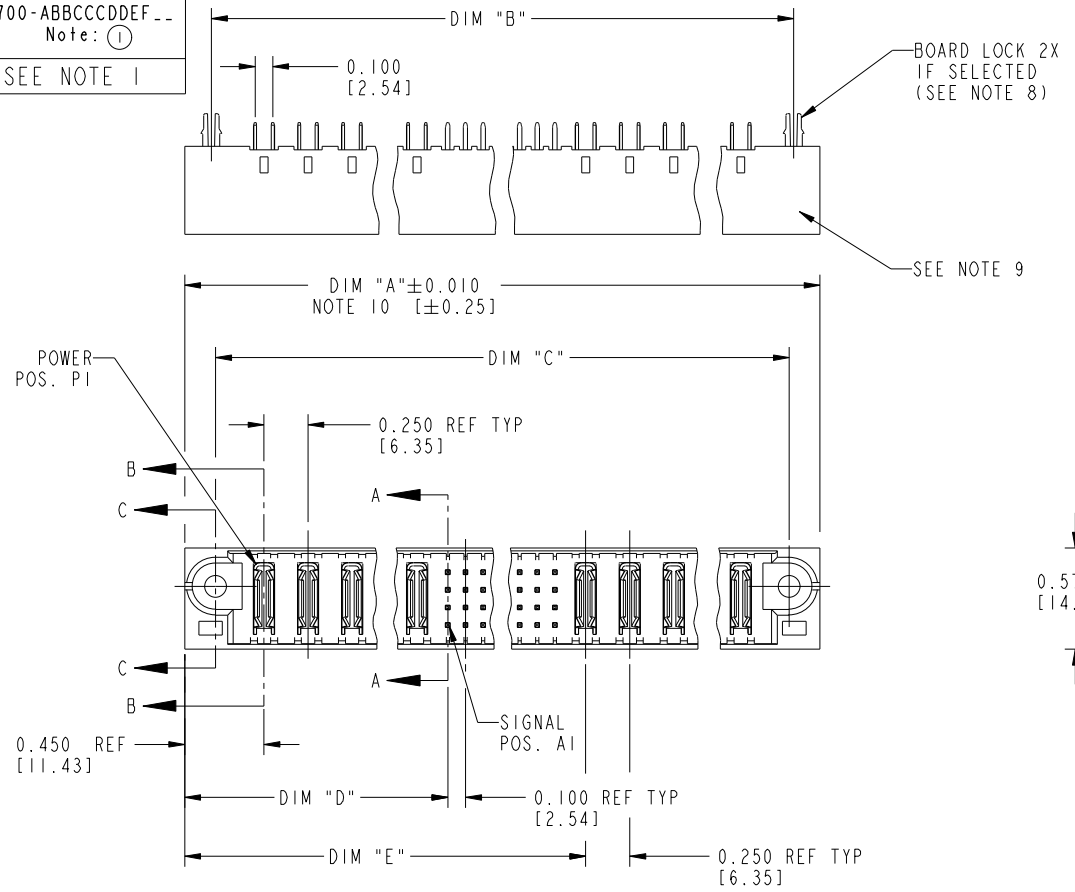
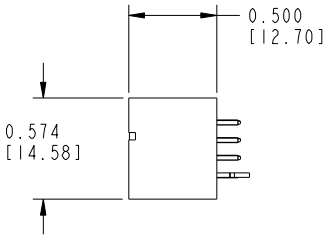
PRODUCT NUMBER
51700-ABBCCCDDEF__ Note: (1)
SEE NOTE 1





mat'l code	NOTE 2

ltr	ecn no.	dr	date
K	DG05-0132	SJ	05/26/05
L	DG05-0435	SW	11/03/05
M	DG05-0485	GuoJM	11/21/05
N	DG08-0123	SH	05/19/08

tolerances unless otherwise specified		
	.XX±.01/0.X±0.3	
linear	.XXX±.005/0.XX±0.13	
	.XXXX±.0020/.XXX±.051	
angles	0°±2°	
dr	JRW	10-12-01
engr	J.ALLISON	10-12-01
chr	J.ALLISON	10-12-01
appd	J.ALLISON	10-12-01

sheet index	revision	N	N
	sheet	1	2

N
3

CUSTOMER
COPY

projection

INCH/MM

scale 1:1

FCI www.fciconnect.com

title: VERTICAL HEADER w/ GUIDE PIN
POWER / SIGNAL / POWER

product family: PWRBLADE
code: 213
size: A
dwg no: 51700
sheet: 1 of 3

cage code: 22526

Pro/E

PDM: Rev:N STATUS:Released Printed: Dec 20, 2010

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PRODUCT NUMBER
51700-ABBCCCDDEF__ Note: (1)
SEE NOTE 1

DIM	LENGTH FORMULAS (SEE NOTE 10)
DIM "A"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .650 [16.51] (NOTE 10)
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

(1) PRODUCT NUMBER CODE:
51700 - A BB CCC DD E F LF

- LF: NO THIS SUFFIX:100u"/2.54um SnPb ON PCB INTERFACE; ADD THIS SUFFIX:78u"/2.00um Sn OR 5u" Au ON PCB INTERFACE
- F: RETENTION TO PCB (NOTE 8)
- E: TAIL OPTIONS (NOTE 7)
- DD: NUMBER OF RIGHT END POWER CONTACTS (NOTE 6)
- CCC: NUMBER OF SIGNAL CONTACTS (NOTE 5)
- BB: NUMBER OF LEFT POWER CONTACTS (NOTE 4)
- A: PLATING (NOTE 3)
- 51700: BASE NUMBER

(2.) HOUSING MATERIAL: UL 94 V-0 GLASS FILLED HIGH TEMP THERMOPLASTIC
POWER CONTACT MATERIAL: COPPER ALLOY
SIGNAL CONTACT MATERIAL: COPPER ALLOY

(N) (3.) PLATING OPTION:
SEE PRINT 10064183 FOR PLATING SPEC OF 51700-ABBCCCDDEF; 51700-ABBCCCDDEFLF.

(4) LEFT END POWER CONTACTS, 01 TO 20 AVAILABLE.
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.

(5) SIGNAL CONTACT, 004 TO 148 AVAILABLE.

(6) RIGHT END POWER CONTACTS, 01 - 20 AVAILABLE.
MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.

(7) 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

(8) 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.

(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 SEE PWRBLADE VERTICAL HEADER SPECIAL WORKSHEET (51696) FOR MATING LENGTH OPTIONS.

(13.) DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5m, 1994 UNLESS OTHERWISE SPECIFIED.

PCB NOTES:

14. ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.

15. ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF 0.004 [0.10]

16. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE

17. Ø0.098 [2.49] THROUGH HOLES ARE UNPLATED.

18. Ø0.0453±0.0010 [1.151±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 Ø0.040±0.003 [1.02±0.07] HOLE.

19. FOR PRESSFIT APPLICATION USE FCI CAM TOOL 430169-XXX.

20. A (N) SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

ltr	ecn no.	dr	date
N			

mat'l code: NOTE 2

tolerances unless otherwise specified:
linear .XX±.01/0.X±0.3; .XXX±.005/0.XX±0.13; .XXXX±.0020/.XXX±.051
angles 0°±2°

dr	JRW	10-12-01
engr	J.ALLISON	10-12-01
chr	J.ALLISON	10-12-01
appd	J.ALLISON	10-12-01

CUSTOMER COPY
projection
INCH/MM
scale 1:1

FCI www.fciconnect.com
title: VERTICAL HEADER w/ GUIDE PIN POWER / SIGNAL / POWER
product family: PWRBLADE
code: 213
size: A
dwg no: 51700
sheet: 2
cage code: 22526

sheet index | revision | sheet

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PDM: Rev:N STATUS:Released Printed: Dec 20, 2010

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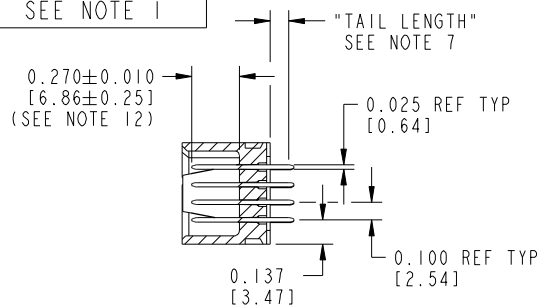
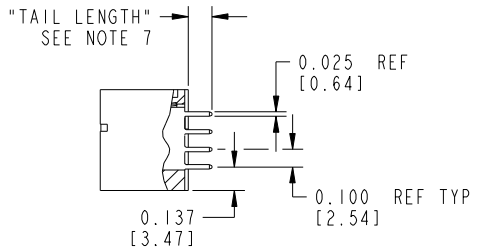
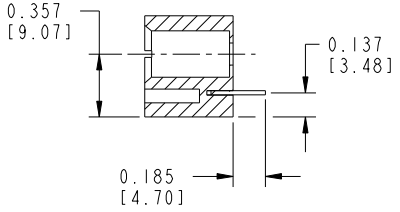
PRODUCT NUMBER
51700-ABBCCCDDEF__ Note: (1)
SEE NOTE 1



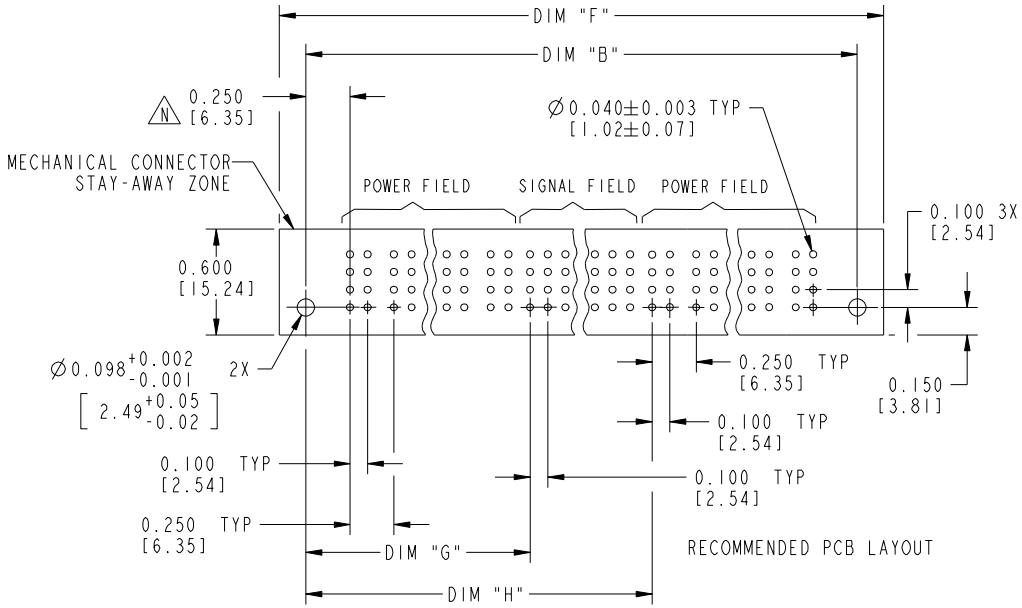
SECTION A-A



SECTION B-B



SECTION C-C



RECOMMENDED PCB LAYOUT

mat'l code	NOTE 2	tolerances unless otherwise specified		CUSTOMER	FCI www.fciconnect.com
ltr / ecn no. / dr / date		linear	.XX±.01/0.X±0.3	COPY	
N			.XXX±.005/0.XX±0.13	projection	title: VERTICAL HEADER w/ GUIDE PIN POWER / SIGNAL / POWER
			.XXXX±.0020/.XXX±.051		
		angles	0°±2°		
		dr	JRW 10-12-01	INCH/MM	product family: PWRBLADE; code: 213
		engr	J.ALLSION 10-12-01		size: A; dwg no: 51700; sheet: 3
		chr	J.ALLISON 10-12-01	scale 1:1	
		appd	J.ALLISON 10-12-01		
sheet index / revision / sheet					cage code: 22526

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