Excellent Integrated System Limited

Stocking Distributor

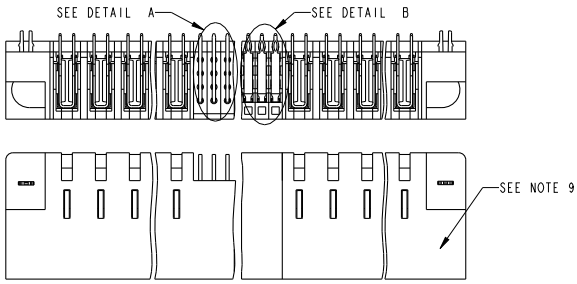
Click to view price, real time Inventory, Delivery & Lifecycle Information:

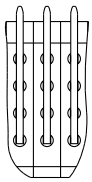
FCI
51720-10001204AALF

For any questions, you can email us directly:
sales@integrated-circuit.com

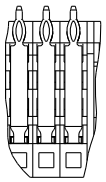
Distributor of FCI: Excellent Integrated System Limited
Datasheet of 51720-10001204AALF - R/A HDR POWERBLADE
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

PRODUCT NUMBER
51720-ABBCCCDDEF__
SEE NOTE 1

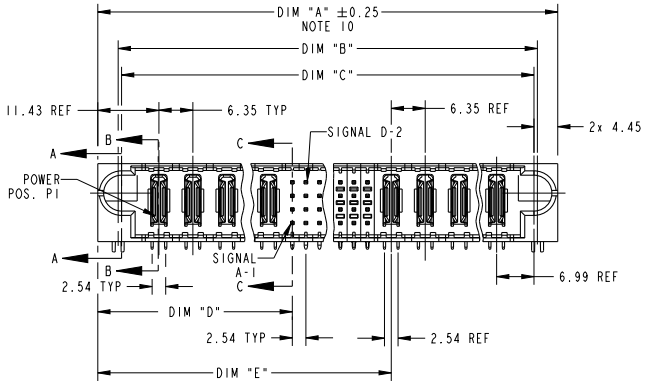


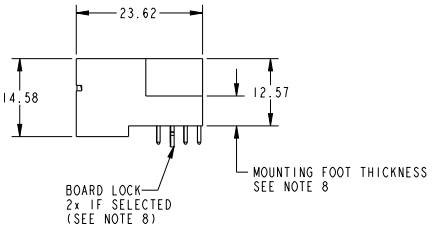


DETAIL A
SCALE 2:1
FOR SOLDER TO BOARD ONLY



DETAIL B
SCALE 2:1
FOR PRESS FIT ONLY





spec ref	*			dr	w wcadmin	2006/11/08	projection	MM	size A4	scale 1:1
tolerance std ASME Y14.5	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Ruan MT	2015/09/29			ecn no	ELX-DG-21593-1
				chr	Fancy Zhang	2015/09/30				
				appr	Pei-Ming Zheng	2015/09/30	product family	PwrBlade	rel level	Released
surface ✓	linear	0.X	±0.5	FCI	title	R/A HEADER WITH GUIDE PIN	dwg no	51720	rev
		0.XX	±0.25			POWER / SIGNAL / POWER			S
		0.XXX	±0.100						
ASME Y14.5	angular	0°	±2°	www.fci.com	cat. no.	51720	Product - Customer Drw		sheet 1 of 3

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PRODUCT NUMBER
51720-ABBCCCDDEF__
SEE NOTE 1

DIM	LENGTH FORMULAS (SEE NOTE 10)
DIM "A"	6.35 x BB + 2.54 x (CCC/4) + 6.35 x DD + 16.51(NOTE 10)
DIM "B"	6.35 x BB + 2.54 x (CCC/4) + 6.35 x DD + 8.89
DIM "C"	6.35 x BB + 2.54 x (CCC/4) + 6.35 x DD + 7.62
DIM "D"	6.35 x BB + 9.53
DIM "E"	6.35 x BB + 2.54 x (CCC/4) + 11.43
DIM "F"	6.35 x BB + 2.54 x (CCC/4) + 6.35 x DD + 17.27
DIM "G"	6.35 x BB + 5.72
DIM "H"	6.35 x BB + 2.54 x (CCC/4) + 6.35

CONNECTOR NOTES

1. PRODUCT NUMBER CODE:
   51720 - 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 END POWER CONTACTS (NOTE 4)
   - A: PLATING (NOTE 3)
   - 51720: BASE NUMBER

2. HOUSING MATERIAL: GLASS FILLED V-0 HIGH TEMP THERMO PLASTIC.
   SIGNAL CONTACT MATERIAL: COPPER ALLOY
   POWER CONTACT MATERIAL: COPPER ALLOY

3. PLATING OPTION:
   1 = SEE ITEM PRINT 10064183 FOR PLATING SPEC OF 51720-ABBCCCDDEF; 51720-ABBCCCDDEFLF

4. LEFT END POWER CONTACTS, 01 TO 19 AVAILABLE.
   MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.

5. SIGNAL CONTACTS, 004 TO 148 AVAILABLE.

6. RIGHT END POWER CONTACTS, 01 TO 19 AVAILABLE.
   MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.

7. TAIL OPTIONS:
   A = 3.43 SOLDER TO BOARD
   B = 4.19 SOLDER TO BOARD
   C = 3.43 PRESS FIT
   D = 2.34 SOLDER TO BOARD

8. RETENTION TO PCB OPTIONS:
   A = BOARD LOCK (2.49 +0.05, -0.03 THRU HOLE IN PCB).
   MOUNTING FOOT THICKNESS: 5.59
   B = 3.81 THRU HOLE (REQUIRES 4.01±0.07 THRU HOLE IN PCB).
   MOUNTING FOOT THICKNESS: 4.06
   MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.

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 203.2

11. PRODUCT SPECIFICATION GS-12-149
    APPLICATION SPECIFICATION BUS-20-067

12. REFERENCE 51697 FOR SELECT LOAD/FMLB WORKSHEET.

PCB NOTES:

13. ALL DIMENSIONS ARE BASIC UNLESS OTHERWISE SPECIFIED.

14. ALL THROUGH HOLES ARE LOCATED WITH A TRUE POSITION OF 0.10

15. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

16. Ø1.151±0.025 DRILLED HOLES PLATED WITH 0.008 MIN SnPb or Sn OVER 0.03 TO 0.08 PLATING TO ACHIEVE A 1.02±0.07 HOLE.

17. A △S SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

18. CONNECTOR KEEP OUT ZONE.

dr	w wcadmin	2006/11/08	projection	MM	size A4 / scale 1:1
eng	Ruan MT	2015/09/29			ecn no ELX-DG-21593-1
chr	Fancy Zhang	2015/09/30			
appr	Pei-Ming Zheng	2015/09/30	product family	PwrBlade	rel level Released

FCI	title: R/A HEADER WITH GUIDE PIN POWER / SIGNAL / POWER	dwg no 51720	rev S
www.fci.com	cat. no. 51720	Product - Customer Drw	sheet 2 of 3

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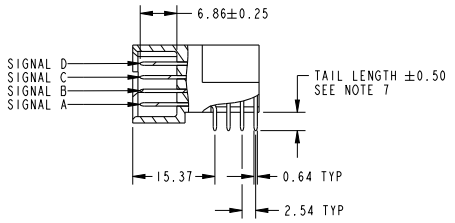
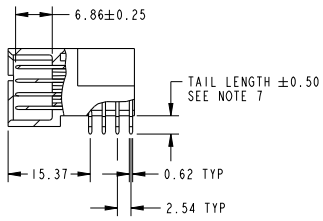
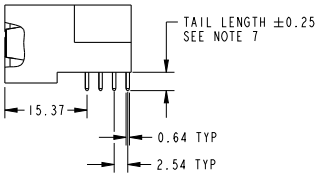
SEE NOTE 1



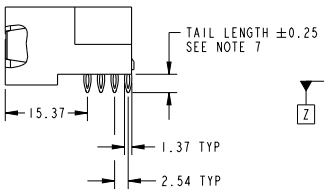
BROKEN-OUT SECTION C-C
FOR SOLDER TO BOARD ONLY



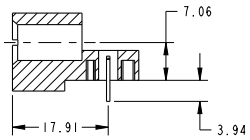
BROKEN-OUT SECTION C-C
FOR PRESS FIT ONLY



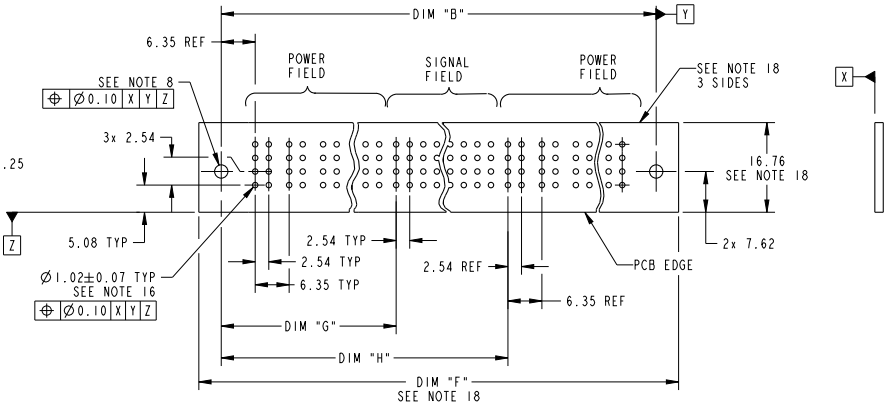
BROKEN-OUT SECTION B-B
FOR SOLDER TO BOARD ONLY



BROKEN-OUT SECTION B-B
FOR PRESS FIT ONLY



SECTION A-A



RECOMMENDED PCB LAYOUT

dr	w wcadmin	2006/11/08	projection	MM	size A4	scale 1:1
eng	Ruan MT	2015/09/29			ecn no	ELX-DG-21593-1
chr	Fancy Zhang	2015/09/30				
appr	Pei-Ming Zheng	2015/09/30	product family	PwrBlade	rel level	Released
FCI	title	R/A HEADER WITH GUIDE PIN POWER / SIGNAL / POWER	dwg no	51720	rev	S
www.fci.com	cat. no.	51720	Product - Customer Drw		sheet 3 of 3	

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