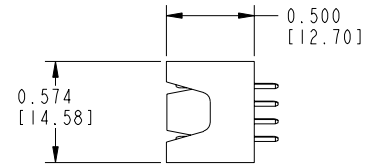
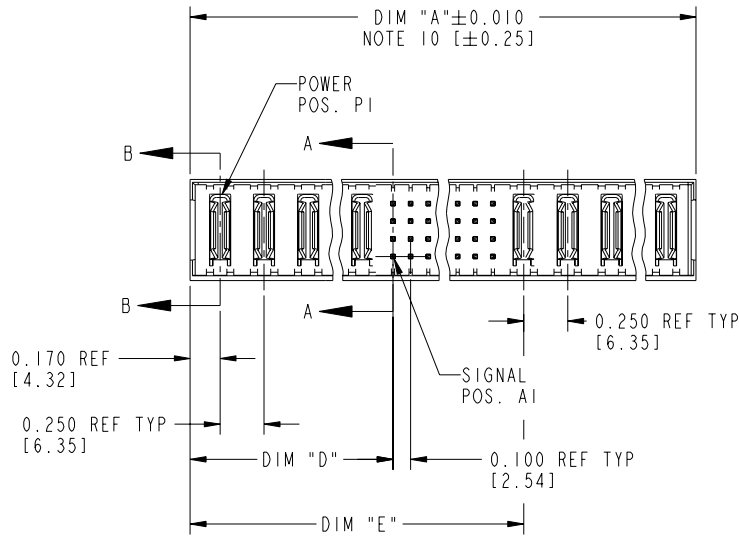
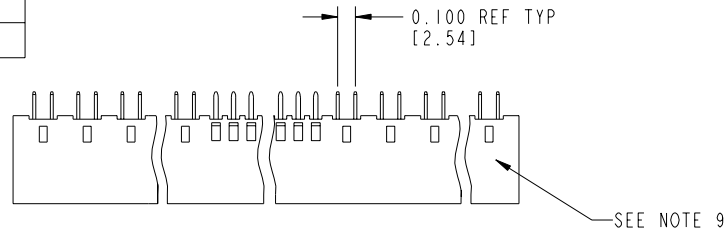


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PRODUCT NUMBER
51704-ABBCCCDDE0_
SEE NOTE 1



mat'l code				NOTE 2		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX±.01/0.XX±0.3	projection		COPY			
K	DG06-0011	CS	01/13/06	angles	.XXX±.005/0.XX±0.13	INCH/MM		product family		PWRBLADE	
				dr	.XXX±.0020/.XXX±.051	scale		size		code	
				enr	0°±2°	1:1		A		213	
				chr	J.R.W 10-16-01			51704		sheet	
				appd	J.ALLISON 10-16-01					1 of 4	
sheet index	revision sheet	K 1	K 2	K 3	K 4					B	

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Pro/E

PDM: Rev:K

STATUS:Released

Printed: Jan 19, 2006

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PRODUCT NUMBER	1 2	DIM	LENGTH FORMULAS (SEE NOTE 10)	3	4
51704-ABBCCDDE0_		DIM "A"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .090 [2.29] (NOTE 10)		
SEE NOTE 1		DIM "D"	.250 [6.35] x BB + .095 [2.41]		
		DIM "E"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .170 [4.32]		
		DIM "F"	.250 [6.35] x BB + .100 [2.54] x (CCC/4) + .250 [6.35] x DD + .120 [3.05]		
		DIM "G"	.250 [6.35] x BB - .025 [.64]		
		DIM "H"	.250 [6.35] x BB + .100 [2.54] x (CCC/4)		

CONNECTOR NOTES

- ① PRODUCT NUMBER CODE:
 51704 - A BB CCC DD E 0 LF
 NO THIS SUFFIX: 100u"/2.54um SnPb ON PCB INTERFACE
 ADD THIS SUFFIX: 78u"/2.00um Sn OR 5u" Au ON PCB INTERFACE
 ALWAYS "0"(ZERO)(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
- ② HOUSING MATERIAL: UL94 V-0 GLASS FILLED HIGH TEMP THERMO PLASTIC.
 SIGNAL CONTACT MATERIAL: COPPER ALLOY
 POWER CONTACT MATERIAL: COPPER ALLOY
 PLATING OPTION: I
- ③ I = SIGNAL CONTACTS: 50u" / 1.27um Ni UNDER ALL; 30u" / 0.76um Au ON THE CONTACT AREA AND WITH 100u"/2.54um SnPb OR 78u"/2.00um Sn ON PCB INTERFACE
 POWER CONTACTS: 50u" / 1.27um Ni UNDER ALL; WITH 30u" / 76um Au ON CONTACT AREA AND WITH 100u"/2.54um SnPb OR 78u"/2.00um Sn ON PCB INTERFACE
- 3 = SIGNAL CONTACTS: 50u" / 1.27um Ni UNDER ALL; 30u" / 0.76um Au ON THE CONTACT AREA AND WITH 5u"/0.13um Au ON PCB INTERFACE
 POWER CONTACTS: 50u" / 1.27um Ni UNDER ALL; WITH 30u" / 76um Au ON CONTACT AREA AND WITH 5u"/0.13um Au ON PCB INTERFACE
- ④ LEFT END POWER CONTACTS, 01 TO 19 AVAILABLE.
 MAXIMUM OF 20 POWER CONTACTS PER CONNECTOR.
 SIGNAL CONTACT, 004 TO 148 AVAILABLE.
 RIGHT END POWER CONTACTS, 01 - 19 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

mat'l code				NOTE 2		tolerances unless otherwise specified		CUSTOMER		A FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX±.01/0.XX±0.3	COPY		projection		title VERTICAL HEADER w/o GUIDE PIN POWER / SIGNAL / POWER	
K				angles	.XXX±.005/0.XX±0.13	INCH/MM		product family PWRBLADE		code 213	
				dr	.XXX±.0020/.XXX±.051	scale 1:1		size A		sheet 2	
				enrg	J.ALLISON 05-11-99			dwg no 51704			
				chr	J.ALLISON 10-16-01						
				appd	J.ALLISON 10-16-01						
sheet index	revision sheet										

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
PRODUCT NUMBER
51704-ABBCCCDDE0_
SEE NOTE 1

- 8 BOARD RETENTION NOT AVAILABLE WITH GUIDELESS ENDS.
- 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. $\varnothing 0.0453 \pm 0.0010$ [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 $\varnothing 0.040 \pm 0.003$ [1.02 ± 0.07] HOLE.
- 18. FOR PRESS FIT APPLICATION USE FCI CAM TOOL 430169-XXX.

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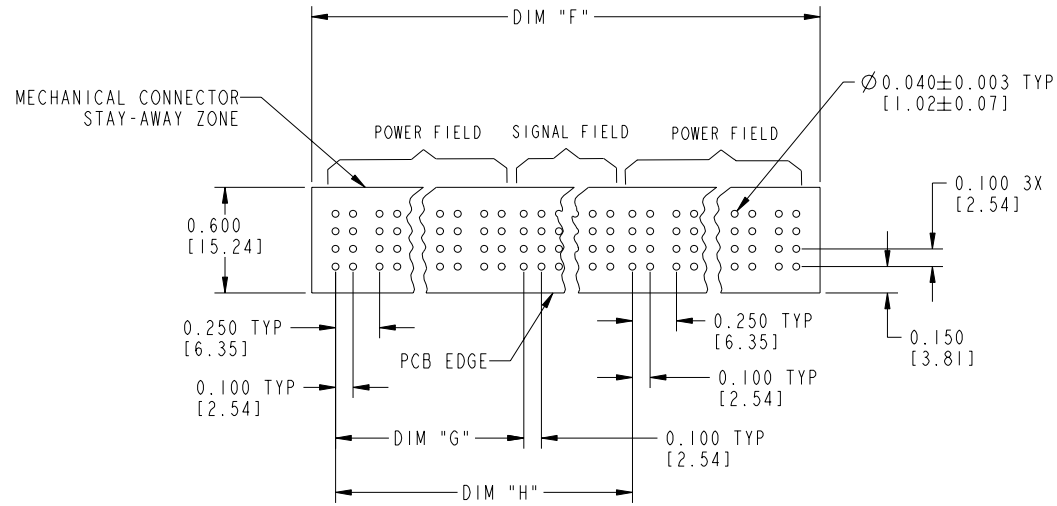
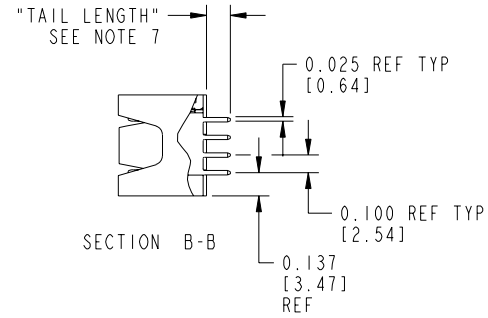
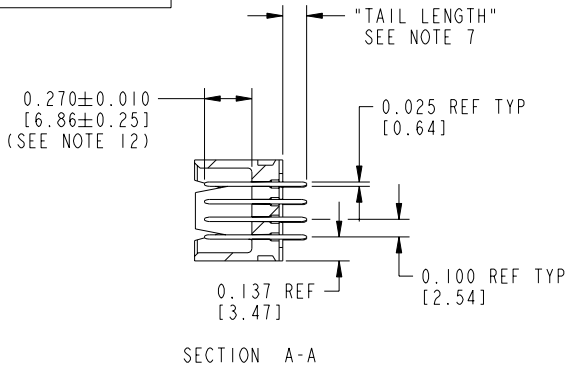
mat'l code		SEE NOTES		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX \pm .01 / 0.X \pm 0.3	COPY		projection	
K				angles	.XXX \pm .005 / 0.XX \pm 0.13			VERTICAL HEADER w/o GUIDE PIN POWER / SIGNAL / POWER	
				dr	.XXX \pm .0020 / .XXX \pm .051	INCH/MM		product family PWRBLADE	
				enr	0 $^{\circ}$ \pm 2 $^{\circ}$	scale 1:1		code 213	
				chr	J.R.W 10-16-01	A		sheet 3	
				appd	J.ALLISON 05-11-99	51704			
					J.ALLISON 10-16-01				
sheet index	revision sheet								

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PRODUCT NUMBER
51704-ABBCCCDDE0_
SEE NOTE 1



mat'l code		NOTE 2		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX±.01/0.XX±0.3	COPY		title	
K				angles	.XXX±.005/0.XX±0.13	projection		VERTICAL HEADER w/o GUIDE PIN POWER / SIGNAL / POWER	
				dr	.XXX±.0020/.XXX±.051	 INCH/MM		product family	
				enr	0°±2°	scale		PWRBLADE	
				chr	J.RW 10-16-01	1:1		code	
				appd	J.ALLISON 10-16-01			213	
sheet index	revision sheet							sheet	
								4	

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