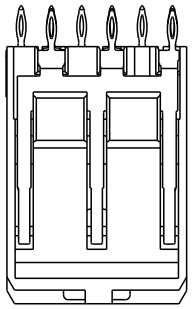
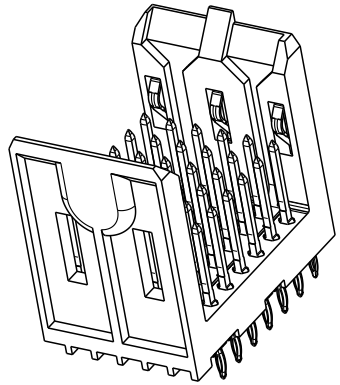
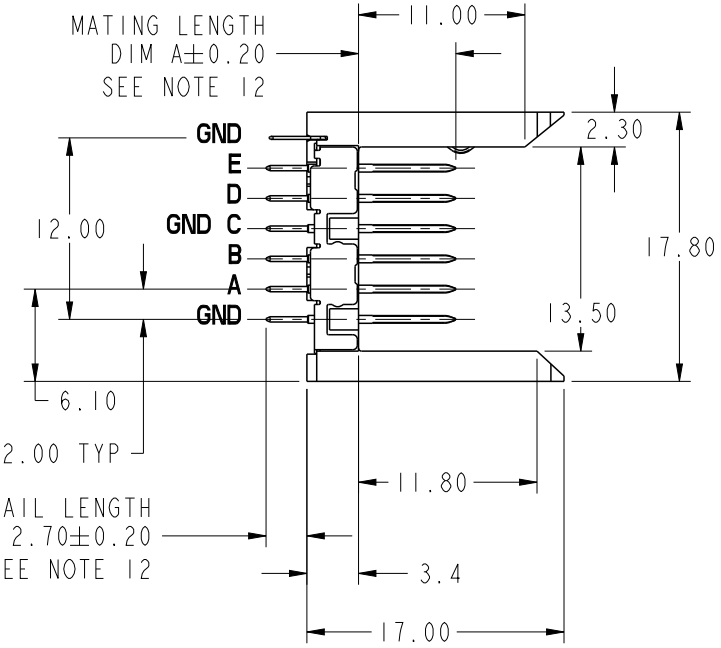
PRODUCT NUMBER

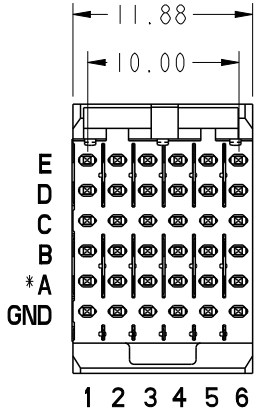
55003-X 01 ZZZ LF

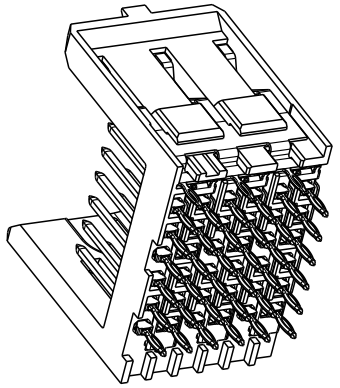
- "LEAD FREE" (OPTIONAL)
- SPECIAL LOAD PATTERN SEE SHEET 4
- SIZE (1 MOD)
- PLATING PERFORMANCE LEVEL, SEE SHEET 2
- BASE NUMBER











*ROW C INFORMATION

ODD NUMBER COLUMNS WITHIN ROW C ARE COMMONED TO GROUND INTERNALLY WITHIN THE HOUSING. THE EVEN NUMBER COLUMNS WITHIN ROW C ARE NOT. FOR MAXIMUM PERFORMANCE IT IS RECOMMENDED THESE EVEN COLUMNS BE GROUND COMMONED WITHIN PCB. SEE NOTE 11

spec ref	-	dr	P-Mathew Nebu	2011/05/19	projection	mm	size A4 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Stalin Alosius	2014/07/24			
		chr	-	-			ecn no ELX-I-17886-1
		appr	K-Paul Biju	2014/07/24	product family	METRAL 4000	rel level Released
surface ISO 1302	linear 0.X ±0.3 / 0.XX ±0.13 / 0.XXX ±0.051 / angular 0° ±2°	www.fci.com	title: VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.		dwg no 55003		rev M
			cat. no.	Product - Customer Drw			sheet 1 of 4

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PRODUCT NUMBER	PLATING PERFORMANCE LEVEL
55003-101ZZZ	TELCORDIA CO
55003-101ZZZLF	TELCORDIA CO
55003-501ZZZ	TELCORDIA UE
55003-501ZZZLF	TELCORDIA UE
55003-901ZZZ	TELCORDIA CO
55003-901ZZZLF	TELCORDIA CO

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-014 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS. SEE PRODUCT SPECIFICATION GS-12-184.

2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994

(3.) HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHOR BRONZE
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
STRIPLINE SHIELD MATERIAL: PHOSPHOR BRONZE

4. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
FOR USE WITH METRAL 4000 RECEPTACLES.
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A,B,D,E
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS C
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROWS GND
FOR USE WITH METRAL 1000 RECEPTACLES
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A,B,C,D,E
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND

5. THE MIN PCB THICKNESS FOR FRONT PLUG-UP APPLICATIONS IS 1.6mm.

(6.) THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.

7. CURRENT RATING : 1 AMP PER PIN

8. TEMPERATURE RANGE : -55°C TO +105°C

9. P/N 55003-X01ZZZ SHOWN.

(10.) AVOID TRACES ON TOP OF BOARD DUE TO EXPOSED GROUND SHIELD.

(11.) FOR FRONT PLUG-UP APPLICATIONS, THE EVEN NUMBERED PINS IN ROW "C" CAN BE USED FOR POWER AS WELL AS FOR GROUND. IF THE SURROUNDING PINS ARE NOT USED FOR POWER, THEN EACH PIN CAN CARRY 3 AMPS. IF THE SURROUNDING PINS ARE USED FOR POWER, THEN EACH PIN CAN CARRY 1 AMP. WHEN THE SURROUNDING PINS ARE USED ONLY FOR LOW SPEED SIGNALS, THEN THE EVEN NUMBERED "C" ROW PINS CAN ALSO BE USED FOR LOW SPEED SIGNALS.

(12.) AFTER INSERTION INTO, CIRCUIT BOARD WITH QUALIFIED TOOL.

(13.) PRODUCTS WHERE THE PART NUMBER ENDS IN 'LF' MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

(14.) FOR LEAD FREE PART NUMBERS, ADD AN 'LF' SUFFIX.
EXAMPLE: 55003-X01002LF.

15. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON THIS SHEET.
PLATING ON "LF" TAILS IN Sn. PLATING ON ALL OTHER TAILS IS SnPb.
EQUIVALENT PRECIOUS METAL PLATING MAY BE SUBSTITUTED.

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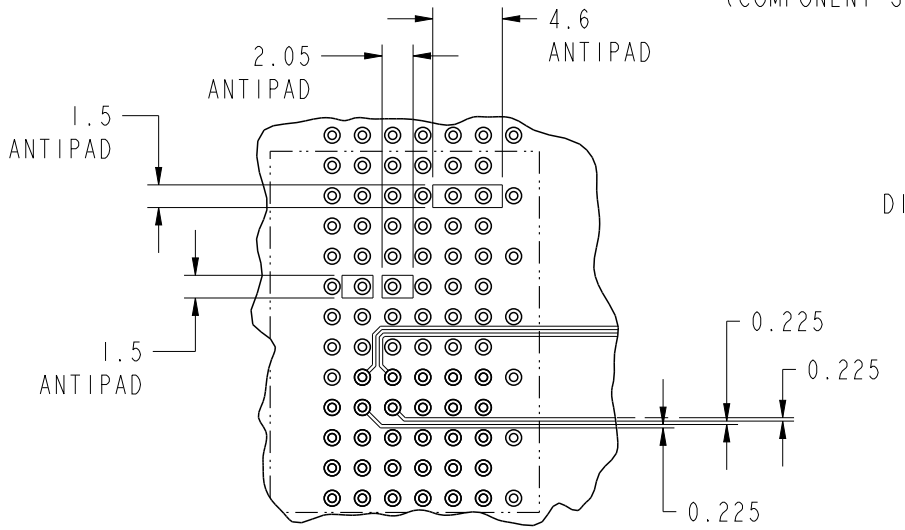
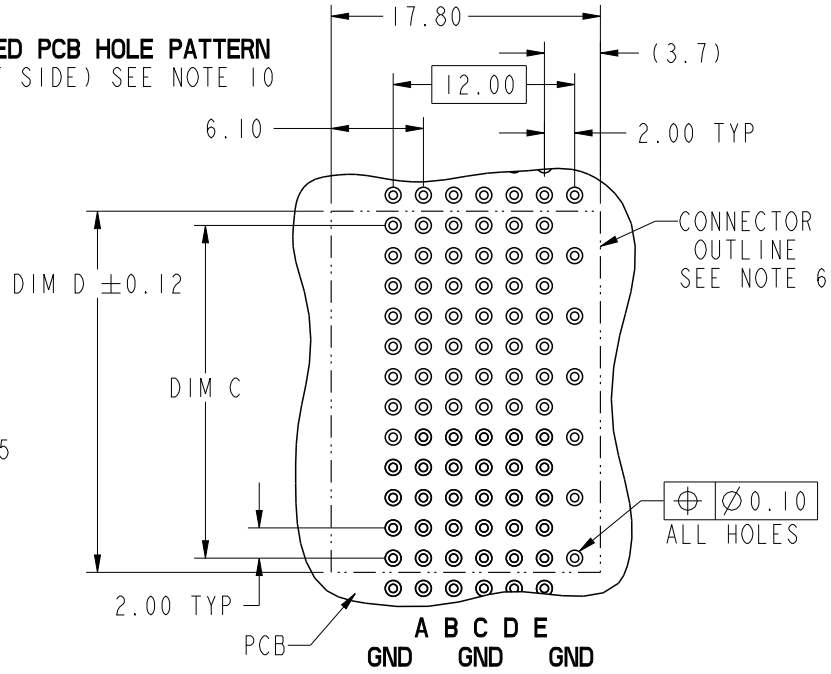
spec ref	-	dr	P-Mathew Nebu	2011/05/19	projection	mm	size A4 / scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Stalin Alosius	2014/07/24			ecn no ELX-I-17886-1
		chr	-	-			
		appr	K-Paul Biju	2014/07/24	product family	METRAL 4000	rel level Released
surface ISO 1302	linear 0.X ±0.3 / 0.XX ±0.13 / 0.XXX ±0.051 / angular 0° ±2°	www.fci.com			title	VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	dwg no 55003 / rev M
					cat. no.	Product - Customer Drw	sheet 2 of 4

PRODUCT NUMBER
SEE SHEETS 1, 2, 4

PRESS-FIT HOLES	OPTION 1 SnPb PLATING	OPTION 2 Sn PLATING	OPTION 3 COPPER	OPTION 4 IMMERSION Ag
FINISHED HOLE DIAMETER	0.45-0.55	0.46-0.55	0.48-0.57	0.48-0.57
DRILLED HOLE SIZE	0.60±0.02	0.60±0.02	0.60±0.02	0.60±0.02
COPPER PLATING THICKNESS	0.025 MIN-0.050 MAX.	0.025 MIN-0.050 MAX.	0.025 MIN-0.050 MAX.	0.025 MIN-0.050 MAX.
HOLE PLATING	0.005-0.015 SnPb	0.0008-0.0012 Sn	NONE	.0002 - .0006 Ag



RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE) SEE NOTE 10



RECOMMENDED TRACK AND ANTIPAD DIMENSIONS
SCALE 2:1

spec ref	-			dr	P-Mathew Nebu	2011/05/19	projection	mm	size A4	scale 1:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Stalin Alosius	2014/07/24			ecn no	ELX-I-17886-1
				chr	-	-			rel level	Released
				appr	K-Paul Biju	2014/07/24	product family	METRAL 4000		
surface ISO 1302	linear	0.X	±0.3	FCI	title	VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	dwg no	55003	rev M
		0.XX	±0.13						
		0.XXX	±0.051						
	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw			sheet 3 of 4

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SPECIAL LOAD PATTERNS

PRODUCT #	ROW	PIN CODES
55003-X01002 SEE NOTE 14 LEAD FREE OPTION	E	03
	D	
	C	
	B	
	A	
	GND	02

PRODUCT #	ROW	PIN CODES
55003-X01005 SEE NOTE 14 LEAD FREE OPTION	E	01
	D	
	C	
	B	
	A	
	GND	

DIM A	PIN CODES
5.00	01
5.75	02
6.50	03
7.25	04
8.00	*19

* CURRENTLY NOT AVALABLE

PRODUCT #	ROW	PIN CODES
55003-X01003 SEE NOTE 14 LEAD FREE OPTION	E	02
	D	
	C	
	B	
	A	
	GND	

PRODUCT #	ROW	PIN CODES
55003-X01004 SEE NOTE 14 LEAD FREE OPTION	E	02
	D	
	C	
	B	
	A	
	GND	NONE

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spec ref	-			dr	P-Mathew Nebu	2011/05/19	projection
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Stalin Alosius	2014/07/24	mm
ISO 406 ISO 1101				chr	-	-	size A4 / scale 1:1
				appr	K-Paul Biju	2014/07/24	ecn no ELX-I-17886-1
surface	linear	0.X	±0.3				product family METRAL 4000 / rel level Released
		0.XX	±0.13				
ISO 1302		0.XXX	±0.051				
	angular	0°	±2°				

www.fci.com

title: VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.

dwg no: 55003

rev: M

cat. no. | Product - Customer Drw | sheet 4 of 4

LifeElectronics
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