

PRODUCT NUMBER

55003-X 01 ZZZ (L) LF

— "LEAD FREE"

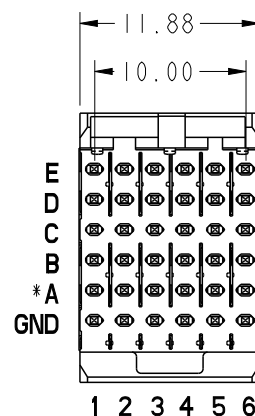
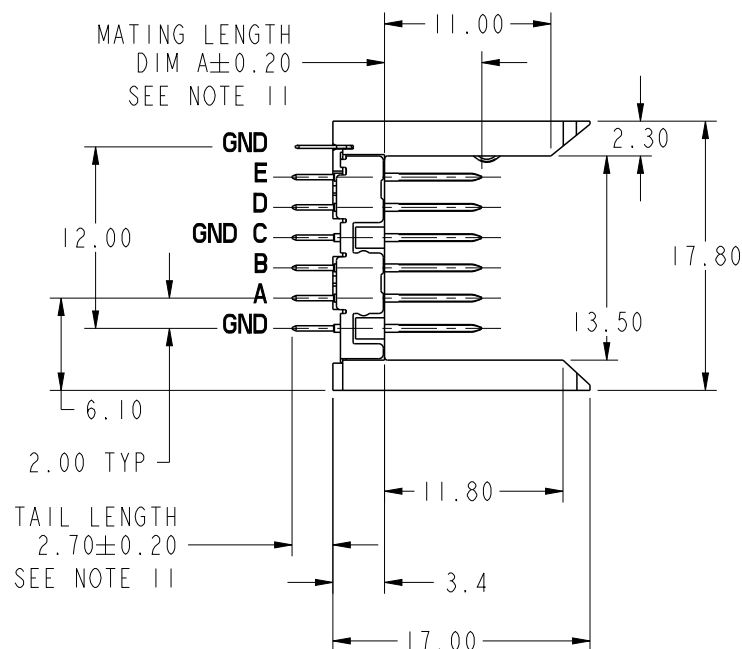
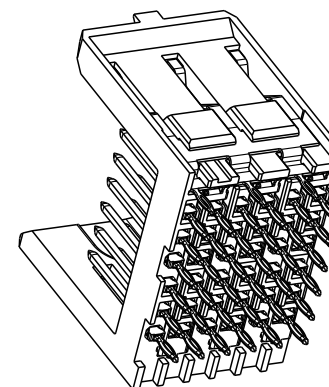
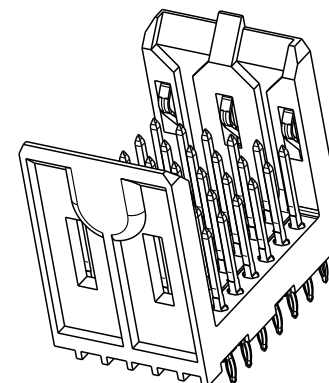
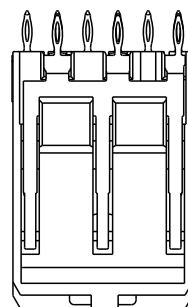
— L REFER LUBRICATION (OPTIONAL) SEE NOTE 2 ▲

— SPECIAL LOAD PATTERN  
SEE SHEET 5

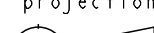



— SIZE (1 MOD)

— X REFER PLATING PERFORMANCE LEVEL ▲  
SEE NOTE 2


— BASE NUMBER

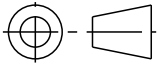


\*ROW C INFORMATION  
ODD NUMBER COLUMNS WITHIN ROW C ARE COMMONED  
TO GROUND INTERNALLY WITHIN THE HOUSING. THE  
EVEN NUMBER COLUMNS WITHIN ROW C ARE NOT.  
FOR MAXIMUM PERFORMANCE IT IS RECOMMENDED THESE  
EVEN COLUMNS BE GROUND COMMONED WITHIN PCB.  
SEE NOTE 10

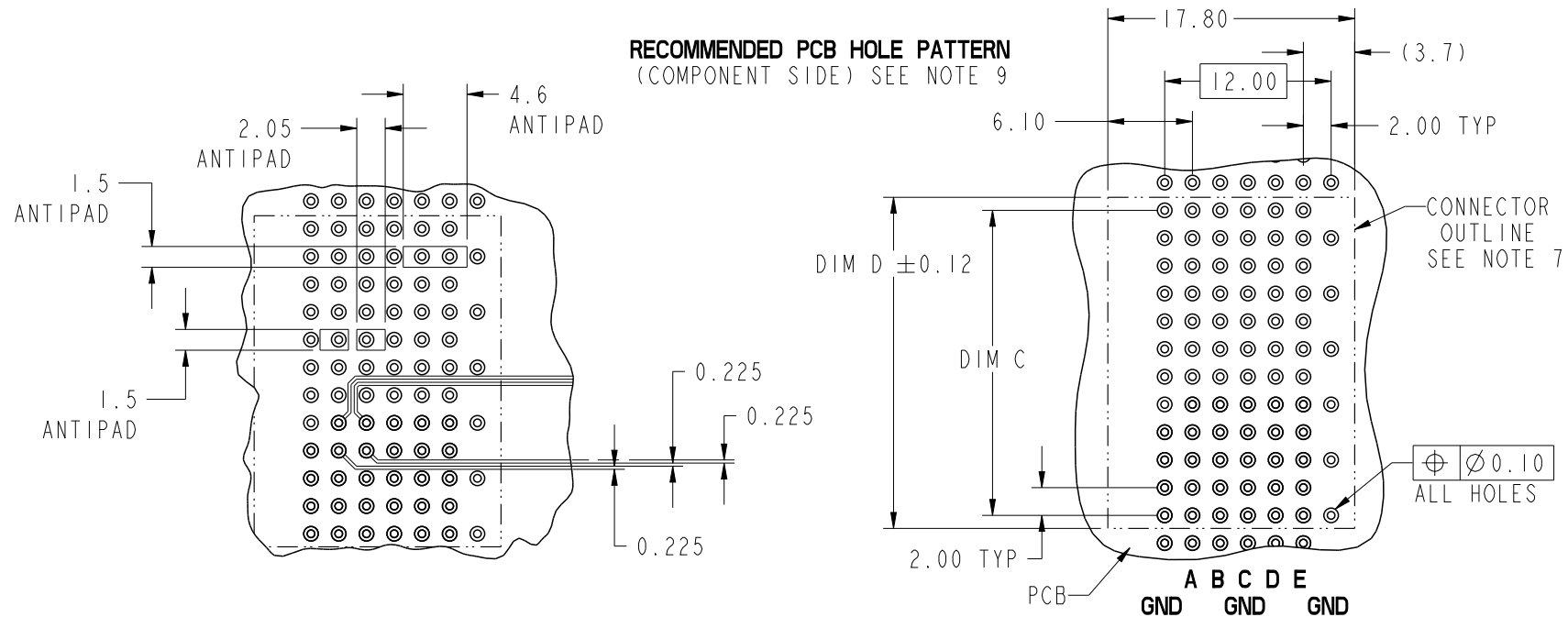
spec ref -				dr	P-Mathew Nebu	2011/05/20	 projection		size	A4	scale	2:1
tolerance std				eng	Kartha, Aravin	2021/09/23			ecn no	ELX-I-42424-1		
ISO 406 ISO 1101 TOLERANCES UNLESS OTHERWISE SPECIFIED				chr	-	-						
				appr	Kuriakose, San	2021/09/23	product family		METRAL 4000		rel level <b>Released</b>	
surface  ISO 1302	linear	0.X	±0.3	<b>Amphenol FCI</b>	vertical 	VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.		dwg no	55003		rev	<b>P</b>
		0.XX	±0.13									
		0.XXX	±0.051									
	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw			sheet 1 of 4			

## NOTES:

1. MATERIAL : BODY : LCP UL94-V0.  
: CONTACT : COPPER ALLOY
2. FOR PLATING PERFORMANCE REFER DRAWING # 10159408.
3. 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.
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
5. 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
6. THE MIN PCB THICKNESS FOR FRONT PLUG-UP APPLICATIONS IS 1.6mm.
7. 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.
8. TEMPERATURE RANGE : -55°C TO +105°C
9. AVOID TRACES ON TOP OF BOARD DUE TO EXPOSED GROUND SHIELD.
10. 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.
11. AFTER INSERTION INTO, CIRCUIT BOARD WITH QUALIFIED TOOL.
12. PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
13. ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
14. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION.

spec ref	-	dr	P-Mathew Nebu	2011/05/20	projection		size	A4	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Kartha, Aravin	2021/09/23			ecn no	ELX-I-42424-1		
ISO 406		chr	-	-			rel level	Released		
ISO 1101		appr	Kuriakose, San	2021/09/23	product family	METRAL 4000	dwg no	55003	rev	P
surface	linear	0.X	±0.3	Amphenol FCI	title	VERTICAL SIGNAL HDR 5 ROW				
		0.XX	±0.13	www.fci.com		P.F. 30 POS. SPECIAL LOAD STD.				
		0.XXX	±0.051							
ISO 1302	angular	0°	±2°		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 TRACK AND ANTIPAD DIMENSIONS  
SCALE 2:1

spec ref		-		dr	P-Mathew Nebu	2011/05/20	<div>projection</div> <div></div>	<div>MM</div> <div></div>	size	A4	scale	1:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Kartha, Aravin	2021/09/23			ecn no	ELX-I-42424-1					
				chr	-	-									
				appr	Kuriakose, San	2021/09/23				product family		METRAL 4000	rel level	Released	
surface		linear	0.X	±0.3	Amphenol FCI	title	VERTICAL SIGNAL HDR 5 ROW				dwg no	55003		rev	P
			0.XX	±0.13											
			0.XXX	±0.051											
		ISO 1302	angular	0°											

## SPECIAL LOAD PATTERNS

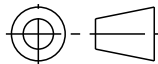
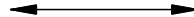

PRODUCT #	ROW	PIN CODES
55003-X01002LF	E	03
	D	
	C	
	B	
	A	
	GND	02

PRODUCT #	ROW	PIN CODES
55003-X01005LF	E	01
	D	
	C	
	B	
	A	
	GND	

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

PRODUCT #	ROW	PIN CODES
55003-X01003LF	E	02
	D	
	C	
	B	
	A	
	GND	

PRODUCT #	ROW	PIN CODES
55003-X01004LF	E	02
	D	
	C	
	B	
	A	
	GND	NONE

spec ref		-		dr	P-Mathew Nebu	2011/05/20	<div>projection</div> <div></div> <div>MM</div> <div></div>	size	A4	scale	1:1			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Kartha, Aravin	2021/09/23		ecn no	ELX-I-42424-1					
				chr	-	-								
				appr	Kuriakose, San	2021/09/23						product family		METRAL 4000
surface		linear	0.X	±0.3	Amphenol FCI	title	VERTICAL SIGNAL HDR 5 ROW			dwg no	55003		rev	P
			0.XX	±0.13										
			0.XXX	±0.051										
ISO 1302	angular	0°	±2°	www.fci.com	cat. no.	Product - Customer Drw			sheet 4 of 4					

Creo File:ELX-MC-AAC,REV F,2020-12-21

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