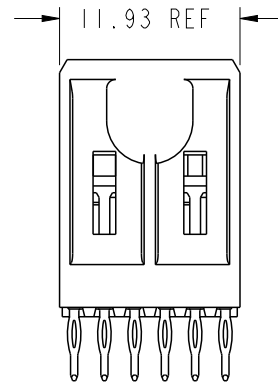
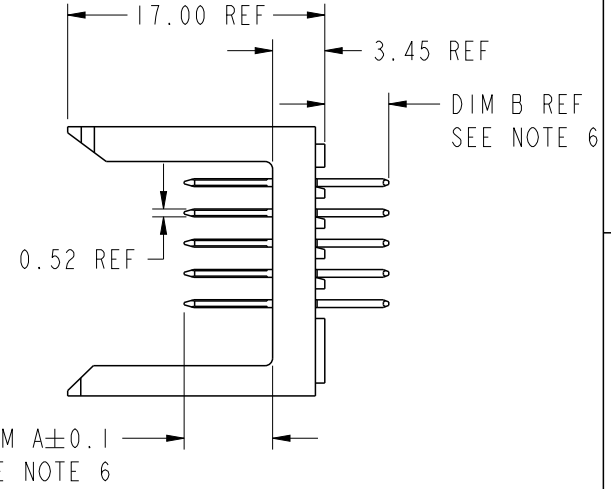
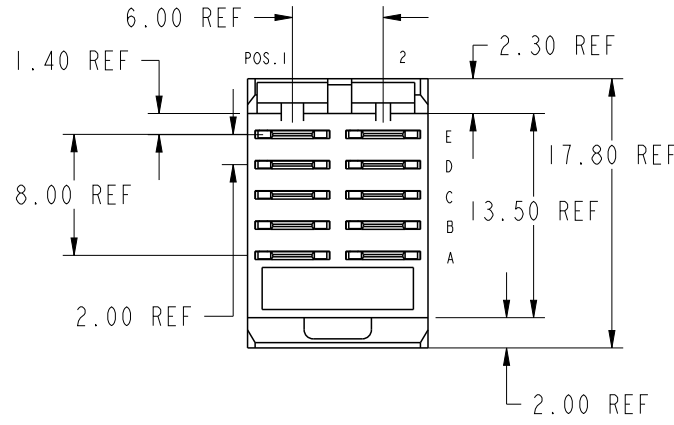
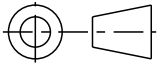


PRODUCT NUMBER
89099-XYX(L)LF

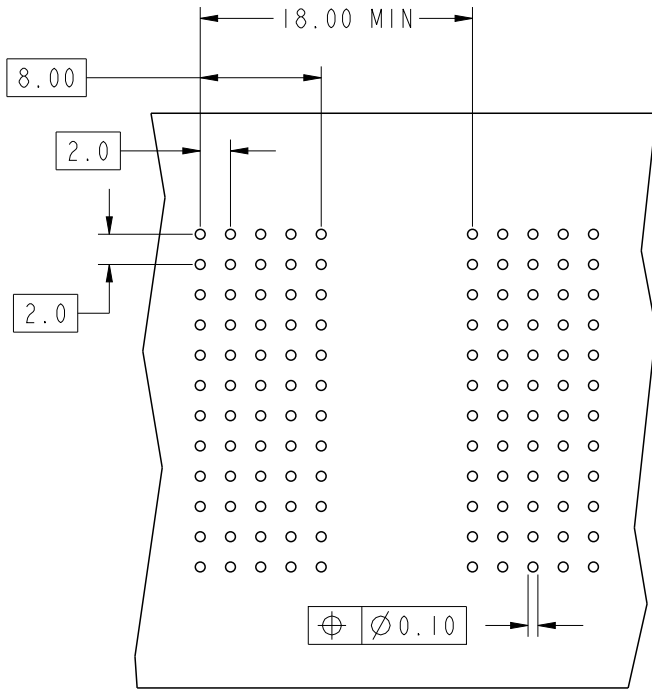
L REFER ;LUBRICATED (OPTIONAL) 
SEE NOTE 3

X REFER PLATING PERFORMANCE 
SEE NOTE 3



spec ref	*	dr	Terran Huang	2010/07/09	projection	MM	size	A4	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/06/17			ecn no	ELX-I-41243-1		
ISO 406 ISO 1101		chr	-	-				rel level	Released	
surface	3.200 linear	appr	Kuriakose, San	2021/08/13	product family	METRAL				
ISO 1302	angular	Amphenol FCi		title	METRAL POWER HEADER			dwg no	89099	
		www.fci.com		1 MOD, 5 ROW PRESS-FIT				rev	AY	
		cat. no.	-			Product - Customer Drw			sheet 1 of 6	

Creo F-114;ELX-NC;AAC,REV F,2020-12-21



KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
P01	6.50	4.30
P02	7.25	4.30
P03	8.00	4.30
P04	6.50	13.60
P05	7.25	13.60
P06	8.00	13.60
P07	6.50	17.00
P08	7.25	17.00
P09	8.00	17.00
PI6	5.00	4.30
PI7	5.75	4.30

REQUIRED PC BOARD LAYOUT
COMPONENT SIDE
REFER DRAWING 58351 FOR PTH DETAILS

spec ref	*	dr	Terran Huang	2010/07/09	projection 	MM 	size	A4	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/06/17			ecn no	ELX-I-41243-1		
ISO 406 ISO 1101		chr	-	-			rel level	Released		
surface	3.200 linear	appr	Kuriakose, San	2021/08/13	product family	METRAL	dwg no	89099	rev	AY
ISO 1302	angular	0°	±2°	www.fci.com	title	METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT	cat. no.	-	Product - Customer Drw	sheet 2 of 6

METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I								
		1	2			1	2			1	2			1	2	1	2					
89099-X01LF	E	P16	P16	89099-X05LF	E	P01	P01	89099-X11LF	E	P01	P01	89099-X15LF	E	P02	P02	89099-X20LF	E	P04	P04			
	D	P16	P16		D	P01	P01		D	P01	P01		D	P02	P02		D	P04	P04	D	P04	P04
	C	P16	P16		C	P02	P02		C	P01	P01		C	P02	P02		C	P02	P02	C	P05	P05
	B	P16	P16		B	P03	P03		B	P01	P01		B	P02	P02		B	P02	P02	B	P06	P06
	A	P16	P16		A	P03	P03		A	P01	P01		A	P02	P02		A	P02	P02	A	P05	P05
89099-X02LF	E	P16	P16	89099-X06LF	E	P17	P17	89099-X12LF	E	P01	P01	89099-X16LF	E	P01	P01	89099-X21LF	E	P04	P04			
	D	P16	P16		D	P17	P17		D	P01	P01		D	P01	P01		D	P04	P04	D	P04	P04
	C	P16	P16		C	P17	P17		C	P01	P01		C	P02	P02		C	P04	P04	C	P04	P04
	B	P16	P16		B	P17	P17		B	P03	P03		B	P02	P02		B	P04	P04	B	P04	P04
	A	P01	P01		A	P17	P17		A	P01	P01		A	P03	P03		A	P03	P03	A	P04	P04
89099-X03LF	E	P17	P17	89099-X07LF	E	P02	P02	89099-X13LF	E	P01	P01	89099-X17LF	E	P01	P01	89099-X22LF	E	P04	P04			
	D	P01	P01		D	P02	P02		D	P01	P01		D	P01	P01		D	P04	P04	D	P04	P04
	C	P17	P17		C	P02	P02		C	P02	P02		C	P01	P01		C	P04	P04	C	P04	P04
	B	P17	P17		B	P02	P02		B	P03	P03		B	P01	P01		B	P06	P06	B	P06	P06
	A	P01	P01		A	P02	P02		A	P03	P03		A	P03	P03		A	P03	P03	A	P04	P04
89099-X04LF	E	P17	P17	89099-X10LF	E	P01	P01	89099-X14LF	E	P03	P03	89099-X18LF	E	P01	P01	89099-X23LF	E	P04	P04			
	D	P17	P17		D	P01	P01		D	P03	P03		D	P01	P01		D	P04	P04	D	P04	P04
	C	P17	P17		C	P02	P02		C	P03	P03		C	P03	P03		C	P05	P05	C	P05	P05
	B	P02	P02		B	P03	P03		B	P03	P03		B	P03	P03		B	P06	P06	B	P06	P06
	A	P17	P17		A	P02	P02		A	P03	P03		A	P03	P03		A	P03	P03	A	P06	P06

spec ref *		dr	Terran Huang	2010/07/09			size	A4	scale	1:1	
tolerance std ISO 406 ISO 1101		eng	Rahul Mohan-M	2021/06/17			product family	METRAL	rel level	Released	
		chr	-	-				ecn no	ELX-I-41243-1		
surface $3.2_{\mu m}$ linear ISO 1302 angular		appr	Kuriakose, San	2021/08/13	title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		rev 89099 AY				
		TOLERANCES UNLESS OTHERWISE SPECIFIED 0.X ±0.3 0.XX ±0.13 0.XXX ±0.051 0° ±2°		cat. no. - Product - Customer Drw					sheet 3 of 6		
		www.fci.com		PDS: Rev :AY STATUS:Released Printed: Aug 13, 2021							

A

B

C

D

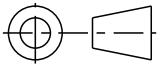


A

B

C

D

METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2			1	2			1	2			1	2			
89099-X24LF	E	P06	P06	89099-X28LF	E	P04	P04	89099-X33LF	E	P07	P07	89099-X37LF	E	P07	P07			
	D	P06	P06		D	P04	P04		D	P07	P07		D	P07	P07			
	C	P06	P06		C	P06	P06		C	P08	P08		C	P07	P07	C	P03	P03
	B	P06	P06		B	P06	P06		B	P09	P09		B	P07	P07	B	P03	P03
	A	P06	P06		A	P06	P06		A	P09	P09		A	P09	P09	A	P02	P02
89099-X25LF	E	P05	P05	89099-X30LF	E	P07	P07	89099-X34LF	E	P09	P09	89099-X38LF	E	P07	P07			
	D	P05	P05		D	P07	P07		D	P09	P09		D	P07	P07			
	C	P05	P05		C	P08	P08		C	P09	P09		C	P09	P09			
	B	P05	P05		B	P09	P09		B	P09	P09		B	P09	P09			
	A	P05	P05		A	P08	P08		A	P09	P09		A	P09	P09			
89099-X26LF	E	P04	P04	89099-X31LF	E	P07	P07	89099-X35LF	E	P08	P08	89099-X39LF	E	P03	P03			
	D	P04	P04		D	P07	P07		D	P08	P08		D	P01	P01			
	C	P05	P05		C	P07	P07		C	P08	P08		C	P01	P01			
	B	P05	P05		B	P07	P07		B	P08	P08		B	P01	P01			
	A	P06	P06		A	P07	P07		A	P08	P08		A	P01	P01			
89099-X27LF	E	P04	P04	89099-X32LF	E	P07	P07	89099-X36LF	E	P07	P07	89099-X40LF	E	P02	P02			
	D	P04	P04		D	P07	P07		D	P07	P07		D	P01	P01			
	C	P04	P04		C	P07	P07		C	P08	P08		C	P02	P02			
	B	P04	P04		B	P09	P09		B	P08	P08		B	P01	P01			
	A	P06	P06		A	P07	P07		A	P09	P09		A	P02	P02			
89099-X41LF	E	P01	P01	89099-X42LF	E	P01	P01	89099-X43LF	E	P03	P03	89099-X44LF	E	P03	P03			
	D	P03	P03		D	P02	P02		D	P03	P03		D	P03	P03			
	C	P03	P03		C	P02	P02		C	P03	P03		C	P03	P03			
	B	P03	P03		B	P02	P02		B	P02	P02		B	P02	P02			
	A	P02	P02		A	P01	P01		A	P02	P02		A	P02	P02			

spec ref *		dr Terran Huang		2010/07/09		projection		size A4		scale 1:1	
tolerance std		eng Rahul Mohan-M		2021/06/17						ecn no ELX-I-41243-1	
ISO 406 ISO 1101		chr -		-						rel level Released	
surface 3.200 ✓		appr Kuriakose, San		2021/08/13		product family METRAL		rev		89099	
ISO 1302		angular 0°		±2°				METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		www.fci.com	
						cat. no. -		Product - Customer Drw		sheet 4 of 6	

METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2			1	2			1	2			1	2
89099-X45LF	E	P03	P03	89099-X49LF	E	P02	P02	89099-X53LF	E	P05	P05	89099-X57LF	E	P03	P03
	D	P02	P02		D	P03	P03		D	P05	P05		D	P01	P01
	C	P17	P17		C	P03	P03		C	P06	P06		C	P01	P01
	B	P17	P17		B	P03	P03		B	P04	P04		B	P01	P01
	A	P17	P17		A	P02	P02		A	P04	P04		A	P03	P03
89099-X46LF	E	P03	P03	89099-X50LF	E	P01	P01	89099-X54LF	E	P02	P02	89099-X58LF	E	P01	P01
	D	P03	P03		D	P01	P01		D	P02	P02		D	P03	P03
	C	P01	P01		C	P03	P03		C	P03	P03		C	P01	P01
	B	P03	P03		B	P01	P01		B	P01	P01		B	P03	P03
	A	P01	P01		A	P01	P01		A	P01	P01		A	P01	P01
89099-X47LF	E	P01	P01	89099-X51LF	E	P01	P01	89099-X55LF	E	P02	P02	89099-X59LF	E	P16	P16
	D	P01	P01		D	P01	P01		D	P02	P02		D	P03	P03
	C	P02	P02		C	P16	P16		C	P02	P02		C	P03	P03
	B	P03	P03		B	P01	P01		B	P03	P03		B	P03	P03
	A	P02	P02		A	P01	P01		A	P03	P03		A	P03	P03
89099-X48LF	E	P04	P04	89099-X52LF	E	P03	P03	89099-X56LF	E	P05	P05	89099-X60LF	E	P01	P01
	D	P04	P04		D	P02	P02		D	P05	P05		D	P01	P01
	C	P06	P06		C	P03	P03		C	P05	P05		C	P03	P03
	B	P04	P04		B	P03	P03		B	P05	P05		B	P03	P03
	A	P04	P04		A	P03	P03		A	P04	P04		A	P01	P01
89099-X61LF	E	P03	P03	89099-X62LF	E	P06	P06	89099-X63LF	E	P01	P01	89099-X64LF	E	P02	P02
	D	P03	P03		D	P05	P05		D	P02	P02		D	P02	P02
	C	P02	P02		C	P05	P05		C	P01	P01		C	P01	P01
	B	P01	P01		B	P06	P06		B	P02	P02		B	P02	P02
	A	P01	P01		A	P05	P05		A	P03	P03		A	P03	P03

spec ref	*	dr	Terran Huang	2010/07/09	projection 	size A4	scale 1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/06/17			
ISO 406 ISO 1101		chr	-	-			
surface	3.200 linear	appr	Kuriakose, San	2021/08/13	product family METRAL	rel level Released	
ISO 1302	angular 0° ±2°						
	0.X ±0.3 0.XX ±0.13 0.XXX ±0.051	Amphenol FCI		title METRAL POWER HEADER		dwg no 89099	rev AY
	www.fci.com	cat. no.		Product - Customer Drw			

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X65LF	E	P17	P17
	D	P03	P03
	C	P03	P03
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X69LF	E	P03	P03
	D	P16	P16
	C	P16	P16
	B	P16	P16
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X73LF	E	P03	P02
	D	P03	P02
	C	P03	P03
	B	P03	P03
	A	P16	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X66LF	E	P17	P17
	D	P17	P17
	C	P02	P02
	B	P02	P02
	A	P17	P17

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X70LF	E	P01	P01
	D	P03	P01
	C	P03	P03
	B	P03	P03
	A	P03	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X74LF	E	P02	P16
	D	P02	P02
	C	P02	P02
	B	P02	P02
	A	P02	P02


METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
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	D	P02	P02
	C	P02	P02
	B	P03	P03
	A	P03	P03

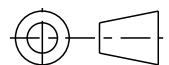

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X71LF	E	P03	P03
	D	P03	P03
	C	P03	P02
	B	P03	P02
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X68LF	E	P01	P01
	D	P02	P02
	C	P02	P02
	B	P02	P02
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X72LF	E	P01	P01
	D	P02	P02
	C	P16	P16
	B	-	-
	A	P02	P02

NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- MATERIAL: BODY : LCP UL94-V0
CONTACT: COPPER ALLOY
- FOR PLATING PERFORMANCE REFER DRAWIGN #10159408
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-075
- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN CONVECTION, INFAR-RED OR VAPOR PHASE REFLOW OVEN.
- A  SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION

spec ref	*	dr	Terran Huang	2010/07/09	projection 	MM 	size	A4	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/06/17			ecn no	ELX-I-41243-1		
ISO 406 ISO 1101		chr	-	-			rel level	Released		
surface	3.200 linear	appr	Kuriakose, San	2021/08/13	product family	METRAL	rel level	Released		
ISO 1302	angular									
	0.X	±0.3	Amphenol FCI	title	METRAL POWER HEADER		dwg no	89099	rev	AY
	0.XX	±0.13								
	0.XXX	±0.051								
	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 6 of 6			