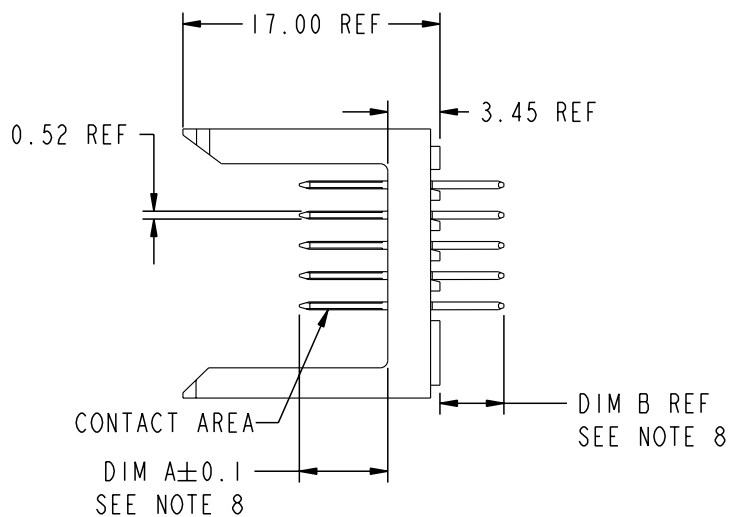
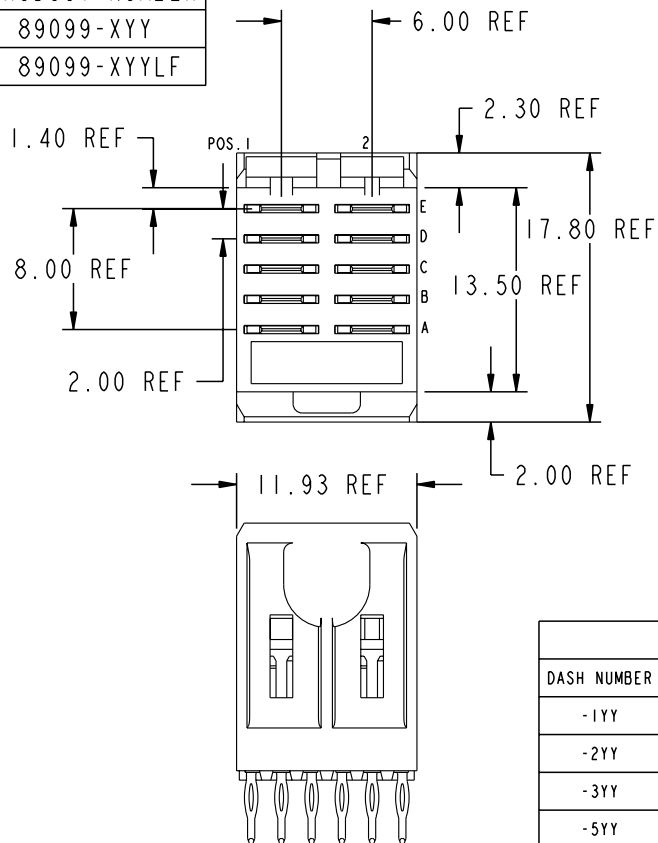


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FCI

PRODUCT NUMBER
89099-XYX
89099-XYXLF



PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS 1	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-1YYLF	TELCORDIA CO IEC CLASS 1	SEE NOTE 9
-2YYLF	TELECOM CLASS	SEE NOTE 9
-5YYLF	TELCORDIA UE	SEE NOTE 9

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY		title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		
AF	V03-0702	HTB	06/24/03		0.XX ±0.13		projection				
AG	V04-0156	HTB	02/13/04		.XXX ±.051						
AH	V04-0283	DAI	04/05/04	angles	0° ±2°		 MM		product family		code
AJ	V05-0047	TAB	01/17/05		dr	T.BRUNGARD	11/19/99	METRAL		213	
AK	V05-0395	DAI	04/26/05	engr	M.STRAWSER	11/19/99	size		dwg no		sheet
AL	V05-0445	DAI	05/12/05	chr	M.STRAWSER	11/19/99	2:1		89099		1 of 6
AM	V05-0859	DAI	09/09/05	appd	M.STRAWSER	02/29/00	A				
sheet index	revision sheet	AM	AM	AM	AM	AM	AM				
		1	2	3	4	5	6				

Pro/E

cage code 22526

PDM: Rev:AM

STATUS:Released

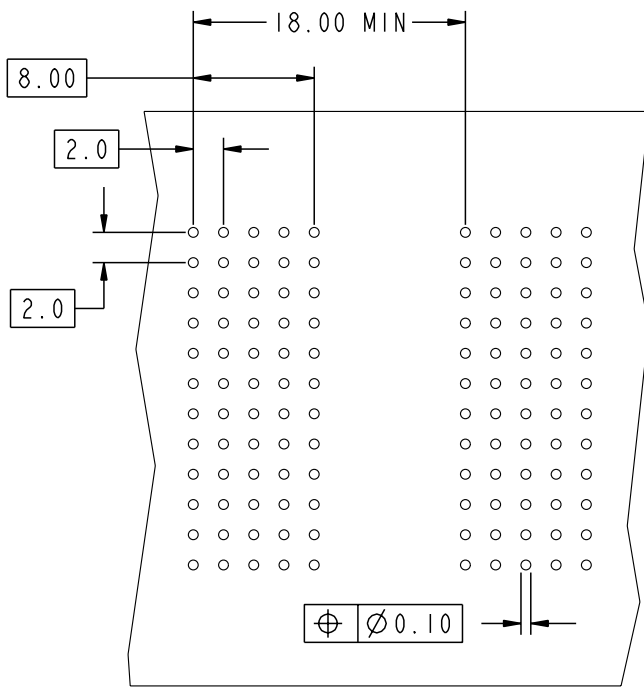
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A



REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR ADDITIONAL
PCB INFORMATION.

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
P16	5.00	4.30
P17	5.75	4.30

mat'l code				tolerances unless otherwise specified		CUSTOMER		A FCI www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY		title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT
AM					0.XX ±0.13		projection		
					.XXX ±.051				
				angles	0° ±2°				product family METRAL code 213 size dwg no 89099 sheet 2
		dr	T. BRUNGARD	11/19/99	MM		product family		
		enr	M. STRAWSER	11/19/99	← MM →		size		
		chr	M. STRAWSER	11/19/99	scale		dwg no		
		appd	M. STRAWSER	02/29/00	2:1		A		
sheet index	revision sheet								

A

B

B

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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		METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2			1	2			1	2			1	2			1	2
89099-X01 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16	89099-X05 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X11 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X15 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X20 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P16	P16		D	P01	P01		D	P01	P01		D	P02	P02		D	P04	P04
	C	P16	P16		C	P02	P02		C	P01	P01		C	P02	P02		C	P05	P05
	B	P16	P16		B	P03	P03		B	P01	P01		B	P02	P02		B	P06	P06
	A	P16	P16		A	P03	P03		A	P01	P01		A	P02	P02		A	P05	P05
89099-X02 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16	89099-X06 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17	89099-X12 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X16 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X21 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P16	P16		D	P17	P17		D	P01	P01		D	P01	P01		D	P04	P04
	C	P16	P16		C	P17	P17		C	P01	P01		C	P02	P02		C	P04	P04
	B	P16	P16		B	P17	P17		B	P03	P03		B	P02	P02		B	P04	P04
	A	P01	P01		A	P17	P17		A	P01	P01		A	P03	P03		A	P04	P04
89099-X03 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17	89099-X07 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X13 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X17 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X22 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P01	P01		D	P02	P02		D	P01	P01		D	P01	P01		D	P04	P04
	C	P17	P17		C	P02	P02		C	P02	P02		C	P01	P01		C	P04	P04
	B	P17	P17		B	P02	P02		B	P03	P03		B	P01	P01		B	P06	P06
	A	P01	P01		A	P02	P02		A	P03	P03		A	P03	P03		A	P04	P04
89099-X04 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17	89099-X10 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X14 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X18 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X23 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P17	P17		D	P01	P01		D	P03	P03		D	P01	P01		D	P04	P04
	C	P17	P17		C	P02	P02		C	P03	P03		C	P03	P03		C	P05	P05
	B	P02	P02		B	P03	P03		B	P03	P03		B	P03	P03		B	P06	P06
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mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		
AM					0.XX ±0.13	MM					
					.XXX ±.051	2:1					
				angles	0° ±2°	scale		product family METRAL	code 213		
				dr	T.BRUNGARD	11/19/99	size A			dwg no 89099	sheet 3
				engr	M.STRAWSER	11/19/99					
				chr	M.STRAWSER	11/19/99					
				appd	M.STRAWSER	02/29/00	cage code		22526		
sheet index	revision sheet										

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cage code 22526

PDM: Rev:AM

STATUS:Released

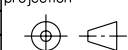

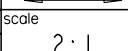
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METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2			1	2			1	2			1	2			1	2
89099-X24 SEE NOTE 10 LEAD FREE OPTION	E	P06	P06	89099-X28 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X33 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X37 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X41 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P06	P06		D	P04	P04		D	P07	P07		D	P07	P07		D	P03	P03
	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-X25 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05	89099-X30 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X34 SEE NOTE 10 LEAD FREE OPTION	E	P09	P09	89099-X38 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X42 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P05	P05		D	P07	P07		D	P09	P09		D	P07	P07		D	P02	P02
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	B	P05	P05		B	P09	P09		B	P09	P09		B	P09	P09		B	P02	P02
	A	P05	P05		A	P08	P08		A	P09	P09		A	P09	P09		A	P01	P01
89099-X26 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X31 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X35 SEE NOTE 10 LEAD FREE OPTION	E	P08	P08	89099-X39 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X43 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P04	P04		D	P07	P07		D	P08	P08		D	P01	P01		D	P03	P03
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	B	P05	P05		B	P07	P07		B	P08	P08		B	P01	P01		B	P02	P02
	A	P06	P06		A	P07	P07		A	P08	P08		A	P01	P01		A	P02	P02
89099-X27 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X32 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X36 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X40 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X44 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P04	P04		D	P07	P07		D	P07	P07		D	P01	P01		D	P03	P03
	C	P04	P04		C	P07	P07		C	P08	P08		C	P02	P02		C	P03	P03
	B	P04	P04		B	P09	P09		B	P08	P08		B	P01	P01		B	P16	P16
	A	P06	P06		A	P07	P07		A	P09	P09		A	P02	P02		A	P03	P03

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY		 title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		
AM			0.XX ±0.13		projection						
			.XXX ±.051		 product family METRAL code 213						
			0° ±2°		 size 89099 sheet 4						
		dr	T.BRUNGARD	11/19/99	MM		scale		sheet index revision sheet		
		enrg	M.STRAWSER	11/19/99	2:1		cage code 22526				
		chr	M.STRAWSER	11/19/99							
		appd	M.STRAWSER	02/29/00							

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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		METRAL P/N	ROW	CONTACT CODE MOD. I							
		1	2			1	2			1	2			1	2			1	2	1	2				
89099-X45 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X49 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X53 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05	89099-X57 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X61 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03						
	D	P02	P02		D	P03	P03		D	P05	P05		D	P01	P01		D	P03	P03	D	P03	P03			
	C	P17	P17		C	P03	P03		C	P06	P06		C	P01	P01		C	P02	P02	C	P01	P01	C	P02	P02
	B	P17	P17		B	P03	P03		B	P04	P04		B	P01	P01		B	P01	P01	B	P01	P01	B	P01	P01
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89099-X46 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X50 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X54 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X58 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X62 SEE NOTE 10 LEAD FREE OPTION	E	P06	P06						
	D	P03	P03		D	P01	P01		D	P02	P02		D	P03	P03		D	P05	P05	D	P05	P05			
	C	P01	P01		C	P03	P03		C	P03	P03		C	P01	P01		C	P05	P05	C	P05	P05			
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89099-X47 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X51 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X55 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X59 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16	89099-X63 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01						
	D	P01	P01		D	P01	P01		D	P02	P02		D	P03	P03		D	P02	P02						
	C	P02	P02		C	P16	P16		C	P02	P02		C	P03	P03		C	P01	P01						
	B	P03	P03		B	P01	P01		B	P03	P03		B	P03	P03		B	P02	P02						
	A	P02	P02		A	P01	P01		A	P03	P03		A	P03	P03		A	P03	P03						
89099-X48 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X52 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X56 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05	89099-X60 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X64 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02						
	D	P04	P04		D	P02	P02		D	P05	P05		D	P01	P01		D	P02	P02						
	C	P06	P06		C	P03	P03		C	P05	P05		C	P03	P03		C	P01	P01						
	B	P04	P04		B	P03	P03		B	P05	P05		B	P03	P03		B	P03	P03						
	A	P04	P04		A	P03	P03		A	P04	P04		A	P01	P01		A	P01	P01						
89099-X65 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17																						
	D	P03	P03																						
	C	P03	P03																						
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mat'l code				--		tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY		title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT			
AM					0.XX ±0.13		projection					
					.XXX ±.051							
				angles	0° ±2°				product family METRAL code 213			
					dr	T.BRUNGARD						11/19/99
				enr	M.STRAWSER	11/19/99	scale 2:1		size A		dwg no 89099	
				chr	M.STRAWSER	11/19/99						
				appd	M.STRAWSER	02/29/00						
sheet index	revision sheet											

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METRAL P/N	CONTACT CODE MOD. 1	
	1	2
89099-X66	P17	P17
	P17	P17
-----	P02	P02
89099-X66LF	P02	P02
	P17	P17

NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL
POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:
89099 -XXX IS SnPb
89099-XYLFF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
- 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-22-008.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 89099-X01LF
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN CONVECTION, INFAR-RED OR VAPOR PHASE REFLOW OVEN.

mat'l code				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY		title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT
AM					0.XX ±0.13		projection		
					.XXX ±.051				
				angles	0° ±2°				product family METRAL code 213 size dwg no 89099 sheet 6
		dr	T.BRUNGARD	11/19/99	MM		product family METRAL code		
		enr	M.STRAWSER	11/19/99			size dwg no		
		chr	M.STRAWSER	11/19/99	scale 1:1		A		
		appd	M.STRAWSER	02/29/00					
sheet index	revision sheet								

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