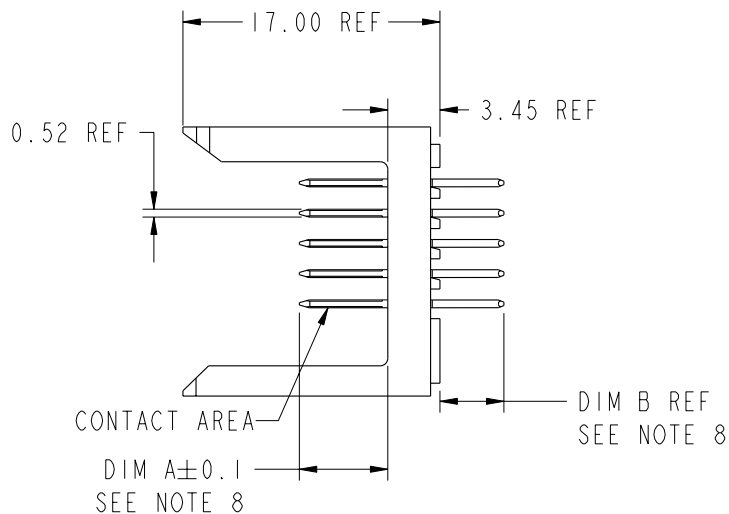
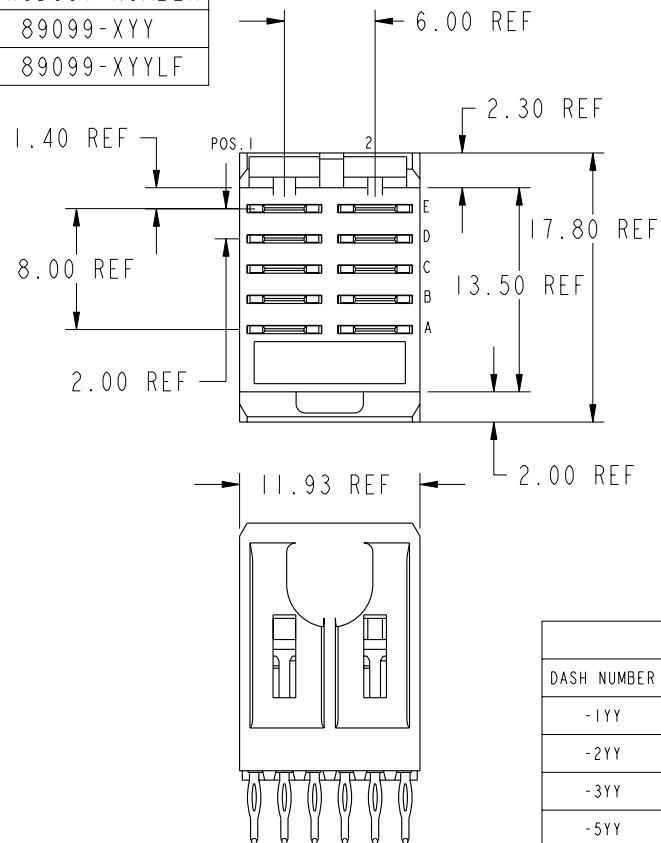




PRODUCT NUMBER
89099-XYX
89099-XYXLF



PLATING IN CONTACT AREA

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

mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI			
ltr	ecn no.	dr	date					COPY		www.fciconnect.com			
AN	V06-0493	DAI	2006-05-24	linear	0.X ±0.3			projection		title			
AP	V06-0513	DAI	V06-0513		0.XX ±0.13					METRAL POWER HEADER			
-	-	-	-	angles	.XXX ±.051					1 MOD, 5 ROW PRESS-FIT			
					0° ±2°								
AJ	V05-0047	TAB	01/17/05	dr	T.BRUNGARD	11/19/99		MM		product family		METRAL	
AK	V05-0395	DAI	04/26/05	enrg	M.STRAWER	11/19/99				size		213	
AL	V05-0445	DAI	05/12/05	chr	M.STRAWER	11/19/99		scale		dwg no		1 of 6	
AM	V05-0859	DAI	09/09/05	appd	M.STRAWER	02/29/00		2:1		A			
sheet	revision	AP	AP	AP	AP	AP	AP						
index	sheet	1	2	3	4	5	6						

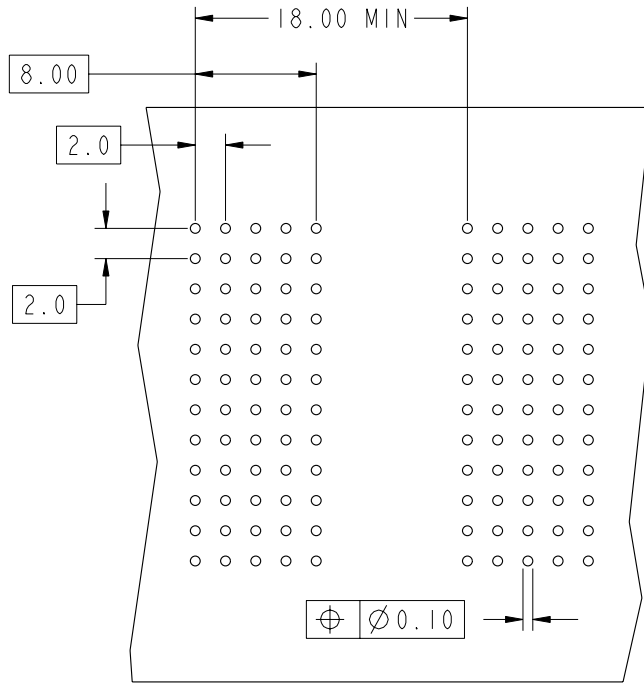
Pro/E

cage code 22526

PDM: Rev:AP

STATUS: Released




Printed: Nov 13, 2007



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
PI6	5.00	4.30
PI7	5.75	4.30

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				
AP					0. XX ±0.13		projection					
					. XXX ±.051							
				angles	0° ±2°			product family METRAL size dwg no 89099				
				dr	T.BRUNGARD	11/19/99	scale 2:1					
				enrg	M. STRAWSER	11/19/99						
				chr	M. STRAWSER	11/19/99						
				appd	M. STRAWSER	02/29/00			code 213 sheet 2			
sheet index	revision sheet											

cage code 22526

Pro/E

PDM: Rev:AP

STATUS: Released

Printed: Nov 13, 2007



1 2				3				4			
METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I	
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
	D	P16	P16		D	P01	P01		D	P02	P02
	C	P16	P16		C	P02	P02		C	P02	P02
	B	P16	P16		B	P03	P03		B	P02	P02
	A	P16	P16		A	P03	P03		A	P02	P02
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
	D	P16	P16		D	P17	P17		D	P01	P01
	C	P16	P16		C	P17	P17		C	P02	P02
	B	P16	P16		B	P17	P17		B	P02	P02
	A	P01	P01		A	P17	P17		A	P03	P03
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
	D	P01	P01		D	P02	P02		D	P01	P01
	C	P17	P17		C	P02	P02		C	P02	P02
	B	P17	P17		B	P02	P02		B	P03	P03
	A	P01	P01		A	P02	P02		A	P03	P03
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
	D	P17	P17		D	P01	P01		D	P03	P03
	C	P17	P17		C	P02	P02		C	P03	P03
	B	P02	P02		B	P03	P03		B	P03	P03
	A	P17	P17		A	P02	P02		A	P03	P03
89099-X20 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X21 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X16 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P04	P04		D	P04	P04		D	P01	P01
	C	P05	P05		C	P04	P04		C	P02	P02
	B	P06	P06		B	P04	P04		B	P02	P02
	A	P05	P05		A	P04	P04		A	P03	P03
89099-X22 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X23 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X17 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P04	P04		D	P04	P04		D	P01	P01
	C	P04	P04		C	P05	P05		C	P01	P01
	B	P06	P06		B	P06	P06		B	P01	P01
	A	P04	P04		A	P06	P06		A	P03	P03
89099-X23 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X24 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X18 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P04	P04		D	P04	P04		D	P01	P01
	C	P05	P05		C	P05	P05		C	P03	P03
	B	P06	P06		B	P06	P06		B	P03	P03
	A	P06	P06		A	P06	P06		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	projection	COPY	title	METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT
AP					0.XX ±0.13				
					.XXX ±.051				
				angles	0° ±2°		product family	METRAL	code
				dr	T.BRUNGARD 11/19/99				
				engr	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99		size	dwg no	213
				appd	M.STRAWSE 02/29/00				
sheet	revision					scale	2:1	A	89099
index	sheet								3



1 2				3				4			
METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I	
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
	D	P06	P06		D	P04	P04		D	P07	P07
	C	P06	P06		C	P06	P06		C	P08	P08
	B	P06	P06		B	P06	P06		B	P09	P09
	A	P06	P06		A	P06	P06		A	P09	P09
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
	D	P05	P05		D	P07	P07		D	P09	P09
	C	P05	P05		C	P08	P08		C	P09	P09
	B	P05	P05		B	P09	P09		B	P09	P09
	A	P05	P05		A	P08	P08		A	P09	P09
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
	D	P04	P04		D	P07	P07		D	P08	P08
	C	P05	P05		C	P07	P07		C	P08	P08
	B	P05	P05		B	P07	P07		B	P08	P08
	A	P06	P06		A	P07	P07		A	P08	P08
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
	D	P04	P04		D	P07	P07		D	P07	P07
	C	P04	P04		C	P07	P07		C	P08	P08
	B	P04	P04		B	P09	P09		B	P08	P08
	A	P06	P06		A	P07	P07		A	P09	P09
89099-X37 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X41 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X38 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07		D	P03	P03		D	P07	P07
	C	P07	P07		C	P01	P01		C	P09	P09
	B	P07	P07		B	P01	P01		B	P09	P09
	A	P09	P09		A	P01	P01		A	P09	P09
89099-X38 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X39 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X40 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P07	P07		D	P01	P01		D	P01	P01
	C	P09	P09		C	P01	P01		C	P02	P02
	B	P09	P09		B	P01	P01		B	P01	P01
	A	P09	P09		A	P01	P01		A	P02	P02
89099-X42 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X43 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X44 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P02	P02		D	P03	P03		D	P03	P03
	C	P02	P02		C	P03	P03		C	P03	P03
	B	P02	P02		B	P02	P02		B	P16	P16
	A	P01	P01		A	P02	P02		A	P03	P03
A				A				A			
B				B				B			

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title	METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT	
AP					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±2°			product family	METRAL	
				dr	T.BRUNGARD					11/19/99
				engr	M.STRAWSE					11/19/99
				chr	M.STRAWSE	11/19/99	size	dwg no	code	
				appd	M.STRAWSE	02/29/00				
sheet	revision									
index	sheet									



METRAL P/N				CONTACT CODE MOD. I				METRAL P/N				CONTACT CODE MOD. I				METRAL P/N				CONTACT CODE MOD. I				METRAL P/N				CONTACT CODE MOD. I			
ROW				I 2				ROW				I 2				ROW				I 2				ROW				I 2			
SEE NOTE 10 LEAD FREE OPTION				E P03 P03				SEE NOTE 10 LEAD FREE OPTION				E P02 P02				SEE NOTE 10 LEAD FREE OPTION				E P05 P05				SEE NOTE 10 LEAD FREE OPTION				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			
SEE NOTE 10 LEAD FREE OPTION				E P03 P03				SEE NOTE 10 LEAD FREE OPTION				E P01 P01				SEE NOTE 10 LEAD FREE OPTION				E P02 P02				SEE NOTE 10 LEAD FREE OPTION				E P01 P01			
				D P03 P03								D P01 P01								D P02 P02								D P03 P03			
				C P01 P01								C P03 P03								C P01 P01								C P01 P01			
				B P03 P03								B P01 P01								B P03 P03								B P03 P03			
				A P01 P01								A P01 P01								A P01 P01								A P01 P01			
SEE NOTE 10 LEAD FREE OPTION				E P01 P01				SEE NOTE 10 LEAD FREE OPTION				E P01 P01				SEE NOTE 10 LEAD FREE OPTION				E P16 P16				SEE NOTE 10 LEAD FREE OPTION				E P01 P01			
				D P01 P01								D P02 P02								D P03 P03								D P02 P02			
				C P02 P02								C P02 P02								C P03 P03								C P01 P01			
				B P03 P03								B P03 P03								B P03 P03								B P02 P02			
				A P02 P02								A P01 P01								A P03 P03								A P03 P03			
SEE NOTE 10 LEAD FREE OPTION				E P04 P04				SEE NOTE 10 LEAD FREE OPTION				E P05 P05				SEE NOTE 10 LEAD FREE OPTION				E P01 P01				SEE NOTE 10 LEAD FREE OPTION				E P02 P02			
				D P04 P04								D P05 P05								D P01 P01								D P02 P02			
				C P06 P06								C P05 P05								C P03 P03								C P01 P01			
				B P04 P04								B P05 P05								B P03 P03								B P03 P03			
				A P04 P04								A P03 P03								A P04 P04								A P01 P01			
SEE NOTE 10 LEAD FREE OPTION				E P17 P17				SEE NOTE 10 LEAD FREE OPTION				E P03 P03				SEE NOTE 10 LEAD FREE OPTION				E P03 P03				SEE NOTE 10 LEAD FREE OPTION				E P03 P03			
				D P03 P03								D P03 P03								D P03 P03								D P03 P03			
				C P03 P03								C P03 P03								C P03 P03								C P03 P03			
				B P03 P03								B P03 P03								B P03 P03								B P03 P03			
				A P03 P03								A P03 P03								A P03 P03								A P03 P03			

mat'l code				--				tolerances unless otherwise specified				CUSTOMER				FCj							
ltr				ecn no.				dr				date				COPY				www.fcconnect.com			
AP																projection				title			
																				METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT			



METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X66	E	P17	P17
	D	P17	P17
-----	C	P02	P02
89099-X66LF	B	P02	P02
	A	P17	P17

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X67	E	P01	P01
	D	P02	P02
-----	C	P02	P02
89099-X67LF	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X68	E	P01	P01
	D	P02	P02
-----	C	P02	P02
89099-X68LF	B	P02	P02
	A	P03	P03

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-XXYLF 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		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	
AP					0. XX ±0.13		projection				
				angles	.XXX ±.051						
					0° ±2°						
				dr	T.BRUNGARD	11/19/99		product family		METRAL	code
				enrg	M.STRAWSE	11/19/99		size	dwg no	213	
				chr	M.STRAWSE	11/19/99		89099		sheet 6	
				appd	M.STRAWSE	02/29/00	A				
sheet index	revision sheet										