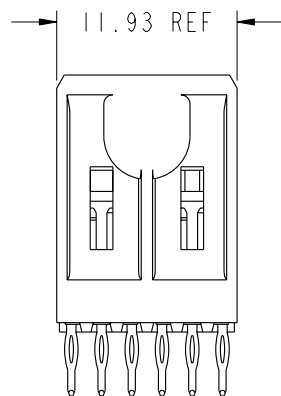
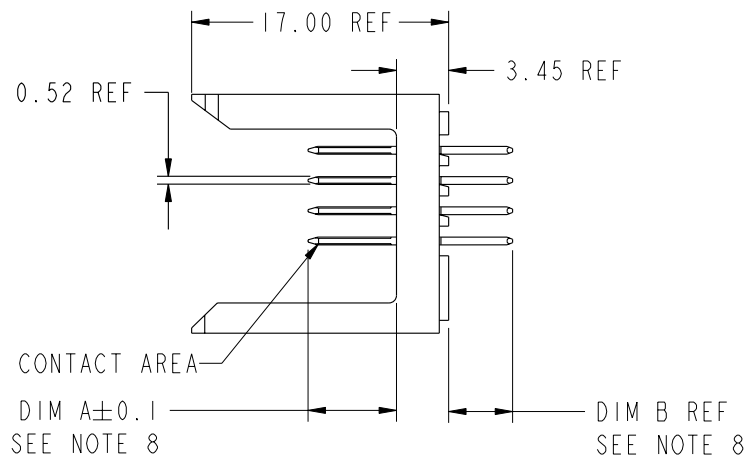
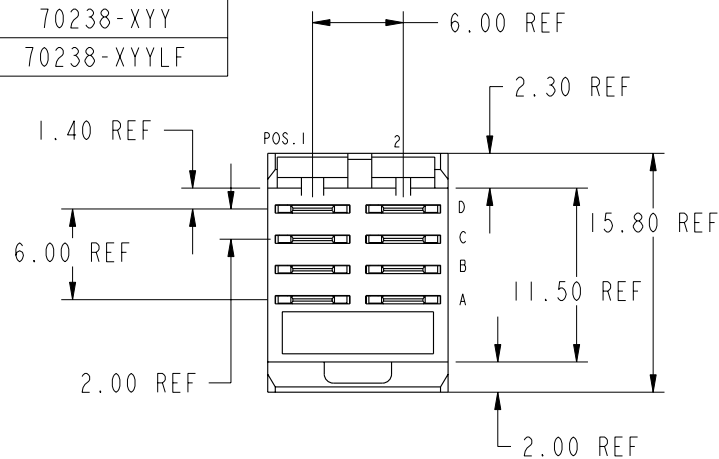




PRODUCT NUMBER
70238-XYX
70238-XYXLF



PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	0.76um GXT	-
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2YYLF	TELECOM CLASS	SEE NOTE 10
-5YYLF	TELCORDIA UE	SEE NOTE 10

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI	
ltr	ecm no.	dr	date	linear	0.X ±0.3	COPY	projection	title	www.fciconnect.com
AL	V06-0498	DCH	2006-05-31	linear	0.XX ±0.13	projection	MM	METRAL POWER HEADER 1 MOD, 4 ROW PRESS-FIT	
-	-	-	-	angles	.XXX ±.051	MM	2:1	product family	METRAL
AF	V03-0134	DAI	01/30/03	dr	0° ±2°	MM	2:1	size	dwg no
AG	V04-0283	DAI	04/05/04	enr	T.BRUNGARD	11/19/99	MM	2:1	213
AH	V04-1147	DAI	11/24/04	chr	M.STRAWER	11/19/99	MM	2:1	1 of 6
AJ	V04-1147	DAI	11/24/04	appd	M.STRAWER	02/29/00	MM	2:1	
AK	V05-0796	DAI	08/19/05		M.STRAWER	02/29/00	MM	2:1	
sheet	revision	AL	AL	AL	AL	AL	AL	AL	AL
index	sheet	1	2	3	4	5	6	7	8

Pro/E

3

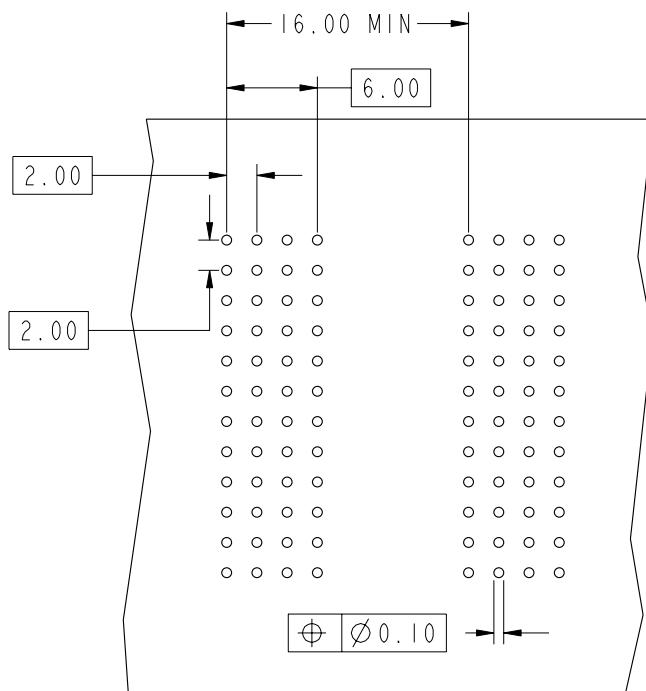
cage code 22526

4

PDM: Rev:AL

STATUS:Released

Printed: Dec 28, 2007



REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	6.50	4.30
2	7.25	4.30
3	8.00	4.30
4	6.50	13.60
5	7.25	13.60
6	8.00	13.60
7	6.50	17.00
8	7.25	17.00
9	8.00	17.00

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi www.fciconnect.com												
ltr	ecn no.	dr	date	linear	0. X ±0.3		projection		title METRAL POWER HEADER 1 MOD, 4 ROW PRESS-FIT											
AL					0. XX ±0.13															
					.XXX ±.051															
				angles	0° ±2°			scale	product family METRAL											
				dr	T.BRUNGARD	11/19/99														
				enrg	M.STRAWSE	11/19/99														
				chr	M.STRAWSE	11/19/99														
				appd	M.STRAWSE	02/29/00														
sheet index		revision sheet					2:1		A		70238		213		sheet 2					

cage code 22526

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STATUS:Released

Printed: Dec 28, 2007



A

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X04 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	3	3
	B	3	3
	A	2	3

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X05 SEE NOTE 11 LEAD FREE OPTION	D	1	3
	C	1	3
	B	1	3
	A	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X09 SEE NOTE 11 LEAD FREE OPTION	D	2	1
	C	2	1
	B	2	1
	A	2	1

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	2
	C	1	2
	B	1	2
	A	1	2

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X24 SEE NOTE 11 LEAD FREE OPTION	D	6	6
	C	6	6
	B	6	6
	A	5	6

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X25 SEE NOTE 11 LEAD FREE OPTION	D	4	6
	C	4	6
	B	4	6
	A	4	6

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X29 SEE NOTE 11 LEAD FREE OPTION	D	5	4
	C	5	4
	B	5	4
	A	5	4

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X30 SEE NOTE 11 LEAD FREE OPTION	D	4	5
	C	4	5
	B	4	5
	A	4	5

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X34 SEE NOTE 11 LEAD FREE OPTION	D	9	9
	C	9	9
	B	9	9
	A	8	9

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X35 SEE NOTE 11 LEAD FREE OPTION	D	7	9
	C	7	9
	B	7	9
	A	7	9

A

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, 4 ROW PRESS-FIT
AL					0.XX ±0.13				
					.XXX ±.051				
				angles	0° ±2°		MM	product family	METRAL
				dr	T.BRUNGARD 11/19/99				
				engr	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	scale	2:1	size	A
				appd	M.STRAWSE 02/29/00				
sheet	revision							cage code	22526
index	sheet								

B



1 2				3				4			
METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1	
70238-X36 SEE NOTE 11 LEAD FREE OPTION	D	7	7	70238-X41 SEE NOTE 11 LEAD FREE OPTION	D	3	2	70238-X46 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	-	8		C	3	-		C	1	1
	B	-	9		B	3	2		B	3	1
	A	9	9		A	-	-		A	3	1
70238-X37 SEE NOTE 11 LEAD FREE OPTION	D	8	8	70238-X42 SEE NOTE 11 LEAD FREE OPTION	D	-	3	70238-X47 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	7	7		C	-	3		C	3	3
	B	7	7		B	-	3		B	1	3
	A	9	9		A	-	3		A	3	3
70238-X38 SEE NOTE 11 LEAD FREE OPTION	D	8	8	70238-X43 SEE NOTE 11 LEAD FREE OPTION	D	3	3	70238-X48 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	8	8		C	3	3		C	3	1
	B	8	8		B	1	1		B	1	1
	A	9	8		A	1	1		A	3	3
70238-X39 SEE NOTE 11 LEAD FREE OPTION	D	8	7	70238-X44 SEE NOTE 11 LEAD FREE OPTION	D	1	1	70238-X51 SEE NOTE 11 LEAD FREE OPTION	D	6	5
	C	8	7		C	1	1		C	6	-
	B	8	7		B	1	3		B	6	5
	A	8	7		A	1	1		A	-	-
70238-X40 SEE NOTE 11 LEAD FREE OPTION	D	7	8	70238-X45 SEE NOTE 11 LEAD FREE OPTION	D	1	1	70238-X52 SEE NOTE 11 LEAD FREE OPTION	D	-	6
	C	7	8		C	1	1		C	-	6
	B	7	8		B	1	1		B	-	6
	A	7	8		A	3	3		A	-	6
70238-X53 SEE NOTE 11 LEAD FREE OPTION	D	6	6	70238-X54 SEE NOTE 11 LEAD FREE OPTION	D	4	4	70238-X55 SEE NOTE 11 LEAD FREE OPTION	D	4	4
	C	6	6		C	4	4		C	4	4
	B	4	4		B	4	6		B	4	4
	A	4	4		A	4	4		A	6	6
70238-X58 SEE NOTE 11 LEAD FREE OPTION	D	6	6	70238-X61 SEE NOTE 11 LEAD FREE OPTION	D	9	8	70238-X62 SEE NOTE 11 LEAD FREE OPTION	D	-	9
	C	6	4		C	9	-		C	-	9
	B	4	4		B	9	8		B	-	9
	A	6	6		A	-	-		A	-	9
70238-X56 SEE NOTE 11 LEAD FREE OPTION	D	4	4	70238-X63 SEE NOTE 11 LEAD FREE OPTION	D	9	9	70238-X64 SEE NOTE 11 LEAD FREE OPTION	D	7	7
	C	4	4		C	9	9		C	7	7
	B	6	4		B	7	7		B	7	9
	A	6	4		A	7	7		A	7	7
70238-X57 SEE NOTE 11 LEAD FREE OPTION	D	6	6	70238-X64 SEE NOTE 11 LEAD FREE OPTION	D	7	7	70238-X64 SEE NOTE 11 LEAD FREE OPTION	D	7	7
	C	6	6		C	7	7		C	7	7
	B	4	6		B	7	9		B	7	9
	A	6	6		A	7	7		A	7	7

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, 4 ROW PRESS-FIT
AL					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°						
				dr	T.BRUNGARD	11/19/99	MM		product family		code
				engr	M.STRAWSE	11/19/99	2:1		METRAL		213
				chr	M.STRAWSE	11/19/99			size		sheet
				appd	M.STRAWSE	02/29/00			dwg no		4
sheet	revision										
index	sheet										



1 2				3				4					
METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1			
		1	2			1	2			1	2		
70238-X65	D	7	7	70238-X70	D	1	1	70238-X75	D	3	2		
SEE NOTE 11 LEAD FREE OPTION	C	7	7	SEE NOTE 11 LEAD FREE OPTION	C	2	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2		
	B	7	7		SEE NOTE 11 LEAD FREE OPTION	B	1		3	SEE NOTE 11 LEAD FREE OPTION	B	1	3
	A	9	9			SEE NOTE 11 LEAD FREE OPTION	A		2		3	SEE NOTE 11 LEAD FREE OPTION	A
70238-X66	D	7	7	70238-X71	D		3	3	70238-X76	D	2		2
SEE NOTE 11 LEAD FREE OPTION	C	7	7	SEE NOTE 11 LEAD FREE OPTION	C	-	-	SEE NOTE 11 LEAD FREE OPTION	C	1	1		
	B	9	7		SEE NOTE 11 LEAD FREE OPTION	B	2		2	SEE NOTE 11 LEAD FREE OPTION	B	3	1
	A	9	7			SEE NOTE 11 LEAD FREE OPTION	A		2		2	SEE NOTE 11 LEAD FREE OPTION	A
70238-X67	D	9	9	70238-X72	D		1	1	70238-X77	D	2		2
SEE NOTE 11 LEAD FREE OPTION	C	9	9	SEE NOTE 11 LEAD FREE OPTION	C	-	-	SEE NOTE 11 LEAD FREE OPTION	C	3	3		
	B	7	9		SEE NOTE 11 LEAD FREE OPTION	B	-		-	SEE NOTE 11 LEAD FREE OPTION	B	2	2
	A	9	9			SEE NOTE 11 LEAD FREE OPTION	A		1		1	SEE NOTE 11 LEAD FREE OPTION	A
70238-X68	D	9	9	70238-X73	D		2	3	70238-X78	D	3		3
SEE NOTE 11 LEAD FREE OPTION	C	9	7	SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	3	3		
	B	7	7		SEE NOTE 11 LEAD FREE OPTION	B	2		1	SEE NOTE 11 LEAD FREE OPTION	B	3	3
	A	9	9			SEE NOTE 11 LEAD FREE OPTION	A		2		3	SEE NOTE 11 LEAD FREE OPTION	A
70238-X69	D	2	2	70238-X74	D		3	2	70238-X79	D	-		2
SEE NOTE 11 LEAD FREE OPTION	C	2	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	-	2		
	B	1	1		SEE NOTE 11 LEAD FREE OPTION	B	2		3	SEE NOTE 11 LEAD FREE OPTION	B	-	2
	A	2	3			SEE NOTE 11 LEAD FREE OPTION	A		2		3	SEE NOTE 11 LEAD FREE OPTION	A
70238-X80	D	1	3	70238-X81	D		3	1	70238-X82	D	1		1
SEE NOTE 11 LEAD FREE OPTION	C	1	3	SEE NOTE 11 LEAD FREE OPTION	C	3	1	SEE NOTE 11 LEAD FREE OPTION	C	1	1		
	B	1	3		SEE NOTE 11 LEAD FREE OPTION	B	3		1	SEE NOTE 11 LEAD FREE OPTION	B	3	3
	A	1	3			SEE NOTE 11 LEAD FREE OPTION	A		3		1	SEE NOTE 11 LEAD FREE OPTION	A
70238-X85	D	2	3	70238-X86	D		1	3	70238-X87	D	2		3
SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	3	3	SEE NOTE 11 LEAD FREE OPTION	C	2	3		
	B	2	3		SEE NOTE 11 LEAD FREE OPTION	B	3		3	SEE NOTE 11 LEAD FREE OPTION	B	2	1
	A	2	3			SEE NOTE 11 LEAD FREE OPTION	A		3		3	SEE NOTE 11 LEAD FREE OPTION	A
70238-X88	D	3	2	70238-X89	D		3	2	70238-X90	D	3		2
SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2		
	B	2	3		SEE NOTE 11 LEAD FREE OPTION	B	1		3	SEE NOTE 11 LEAD FREE OPTION	B	1	3
	A	2	3			SEE NOTE 11 LEAD FREE OPTION	A		2		3	SEE NOTE 11 LEAD FREE OPTION	A

mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI			
lfr	ecr no.	dr	date	linear	0.X ±0.3			COPY				www.fciconnect.com			
AL					0.XX ±0.13			projection				title			
					.XXX ±.051							METRAL POWER HEADER			
					0° ±2°							1 MOD, 4 ROW PRESS-FIT			
				dr	T.BRUNGARD	11/19/99	MM	product family				METRAL			
				enrg	M.STRAWSE	11/19/99		size				dwg no			
				chr	M.STRAWSE	11/19/99		A				70238			
				appd	M.STRAWSE	02/29/00		scale				2:1			
sheet index	revision sheet														

Pro/E				3				cage code				22526			
												4			



METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X90 SEE NOTE 11 LEAD FREE OPTION	D	2	3
	C	2	3
	B	2	1
	A	2	3

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X91 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	1	3
	B	3	3
	A	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X92 SEE NOTE 11 LEAD FREE OPTION	D	-	1
	C	-	1
	B	-	1
	A	-	1

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X93 SEE NOTE 11 LEAD FREE OPTION	D	1	2
	C	2	2
	B	1	3
	A	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X94 SEE NOTE 11 LEAD FREE OPTION	D	1	-
	C	1	-
	B	3	-
	A	1	-

METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2
70238-X95 SEE NOTE 11 LEAD FREE OPTION	D	1	-
	C	-	1
	B	1	-
	A	-	1

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:
70238-XYX IS SnPb
70238-XYLF 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-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH
QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT
AREA (LEAD FREE).
- 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: 70238-X01LF
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS
IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI			
ltr	ecr no.	dr	date	linear	0.X ±0.3	projection	COPY	www.fciconnect.com			
AL					0.XX ±0.13			title			
					.XXX ±.051			METRAL POWER HEADER 1 MOD, 4 ROW PRESS-FIT			
				angles	0° ±2°		MM	product family			
				dr	T.BRUNGARD 11/19/99			METRAL			
				enrg	M.STRAWSE 11/19/99			code			
				chr	M.STRAWSE 11/19/99	scale	2:1	size			
				appd	M.STRAWSE 02/29/00			dwg no			
sheet		revision						A		70238	
index		sheet								213	
										sheet	
										6	

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