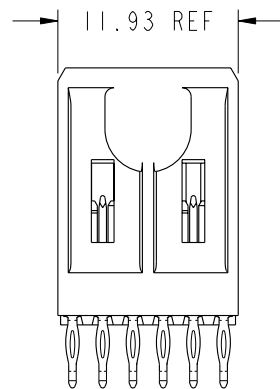
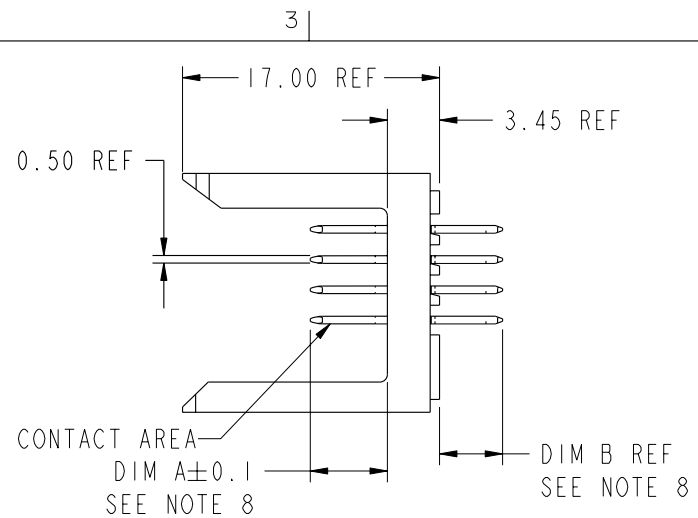
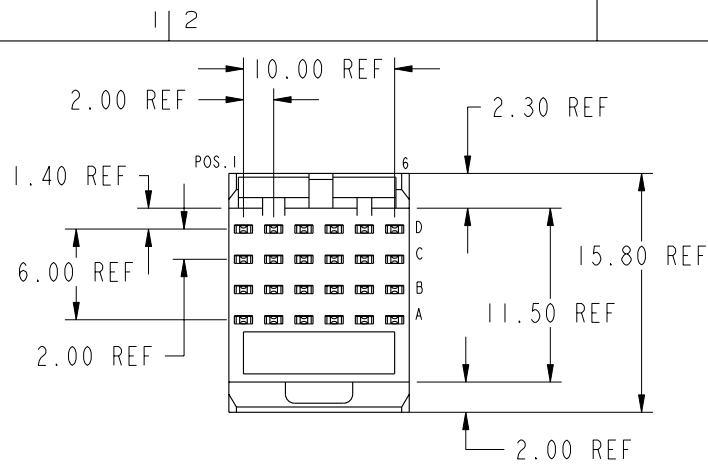


PRODUCT NUMBER  
70232-XYX  
70232-XYXLF



PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-AYY	TELCORDIA CO	SEE NOTE 9
-NIYY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-AYYLF	TELCORDIA CO	SEE NOTE 10
-NIYYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2YYLF	TELECOM CLASS	SEE NOTE 10
-5YYLF	TELCORDIA UE	SEE NOTE 10

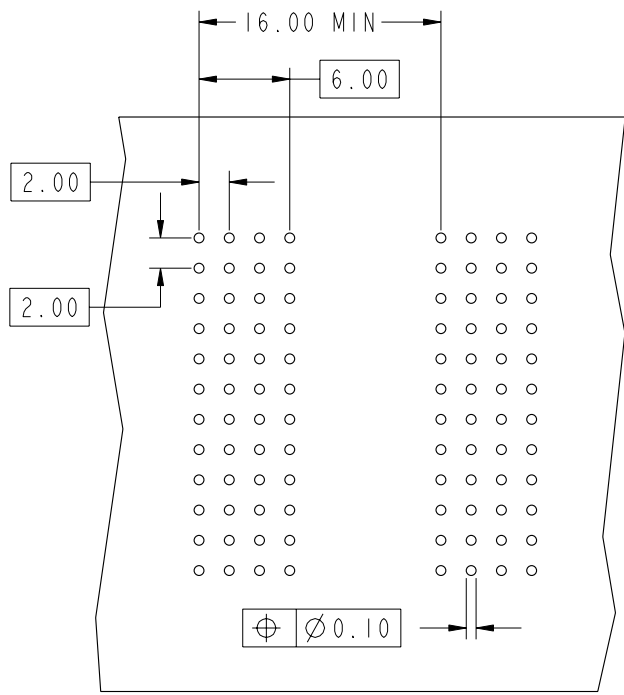
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AL	V06-0498	DCH	2006-05-31		0.XX ±0.13		MM						
-	-	-	-		.XXX ±.051		scale						
-	-	-	-	angles	0° ±2°		2:1		product family		code		
AF	V03-1319	DAI	12/16/03	dr	T.BRUNGARD	11/19/99	← MM →		METRAL		213		
AG	V04-0554	TAB	06/07/04	engr	M.STRAWSER	11/19/99	A		size		sheet		
AH	V05-0079	HTB	02/03/05	chr	M.STRAWSER	11/19/99	70232		dwg no		1 of 8		
AJ	V05-0359	DAI	04/21/05	appd	M.STRAWSER	02/29/00	A		70232		1 of 8		
AK	V05-1030	LP	11/18/05										
sheet index	revision sheet	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL
		1	2	3	4	5	6	7	8				

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KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	5.00	4.30
2	5.75	4.30
3	6.50	4.30
4	7.25	4.30
5	5.00	13.60
6	5.75	13.60
7	6.50	13.60
8	7.25	13.60
9	5.00	17.00
10	5.75	17.00
11	6.50	17.00
12	7.25	17.00
13	8.25	4.30
14	8.25	13.60
15	8.25	17.00
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00

REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE

SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION



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ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL 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	scale		1:1	code	213
		enr	M.STRAWSE	11/19/99	size		A	dwg no	70232
		chr	M.STRAWSE	11/19/99	sheet		2		
		appd	M.STRAWSE	02/29/00	sheet				
sheet index	revision sheet								

cage code 22526

Pro/E

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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				METRAL P/N	ROW	CONTACT CODE MOD. I									
		1	2	3	4			1	2	3	4			1	2	3	4			1	2	3	4						
70232-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	70232-X14 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	70232-X18 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	70232-X22 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	70232-X26 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6
	C	2	2	2	2		C	3	3	3	3		C	1	1	1	1		C	5	5	5	5		C	6	6	6	6
	B	2	2	2	2		B	3	3	3	3		B	1	1	1	1		B	5	5	5	5		B	6	6	6	6
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A

A

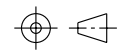

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AL					0.XX ±0.13	projection			
				angles	.XXX ±.051	 product family METRAL code			
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				engr	M.STRAWSER 11/19/99	dwg no			
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				appd	M.STRAWSER 02/29/00	70232			
sheet index	revision sheet					scale 1:1			
						cage code 22526			

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SEE NOTE 11 LEAD FREE OPTION	C	10	10	10	10	10	10	SEE NOTE 11 LEAD FREE OPTION	C	11	11	11	11	11	11	SEE NOTE 11 LEAD FREE OPTION	C	9	9	9	9	9	9	SEE NOTE 11 LEAD FREE OPTION	C	1	1	1	1	1	1	SEE NOTE 11 LEAD FREE OPTION	C	3	3	3	3	3	3	SEE NOTE 11 LEAD FREE OPTION	C	9	9	9	9	9	9	SEE NOTE 11 LEAD FREE OPTION	C	12	12	12	12	12	12	SEE NOTE 11 LEAD FREE OPTION	C	3	3	3	3	3	3	SEE NOTE 11 LEAD FREE OPTION	C	4	4	4	4	4	4								
	B	10	10	10	10	10	10		B	11	11	11	11	11	11		B	9	9	9	9	9	9		B	1	1	1	1	1		B	3	3	3	3	3	3		B	9	9	9	9	9	9		B	12	12	12	12	12	12		B	3	3	3	3	3	3		B	13	13	13	13	13	13		B	4	4	4	4	4	4	
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SEE NOTE 11 LEAD FREE OPTION	C	9	9	9	9	9	9	SEE NOTE 11 LEAD FREE OPTION	C	10	10	10	10	10	10	SEE NOTE 11 LEAD FREE OPTION	C	2	2	2	2	2	2	SEE NOTE 11 LEAD FREE OPTION	C	2	2	2	2	2	SEE NOTE 11 LEAD FREE OPTION	C	3	3	3	3	3	3	SEE NOTE 11 LEAD FREE OPTION	C	10	10	10	10	10	10	SEE NOTE 11 LEAD FREE OPTION	C	2	2	2	2	2	2	SEE NOTE 11 LEAD FREE OPTION	C	2	2	2	2	2	2	SEE NOTE 11 LEAD FREE OPTION	C	3	3	3	3	3	3	SEE NOTE 11 LEAD FREE OPTION	C	4	4	4	4	4	4	
	B	9	9	9	9	9	9		B	10	10	10	10	10		B	4	4	4	4	4	4		B	4	4	4	4	4		B	19	19	19	19	19	19		B	10	10	10	10	10	10		B	2	2	2	2	2	2		B	3	3	3	3	3	3		B	4	4	4	4	4	4										
	A	11	11	11	11	11	11		A	10	10	10	10	10		A	2	2	2	2	2	2		A	3	3	3	3	3		A	19	19	19	19	19	19		A	11	11	11	11	11	11		A	9	9	9	9	9	9		A	2	2	2	2	2	2		A	4	4	4	4	4	4										

mat'l code				tolerances unless otherwise specified				CUSTOMER				FCJ www.fcjconnect.com				
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AL					0.XX ±0.13				projection				METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT			
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				dr	T.BRUNGARD	11/19/99			MM				METRAL			
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sheet index		revision sheet										4				

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SEE NOTE 11 LEAD FREE OPTION	C	6	6	6	6	6	6	SEE NOTE 11 LEAD FREE OPTION	C	7	7	7	7	7	7	SEE NOTE 11 LEAD FREE OPTION	C	20	20	20	20	20	20	SEE NOTE 11 LEAD FREE OPTION	C	9	9	9	9	9	9	SEE NOTE 11 LEAD FREE OPTION	C	11	11	11	11	11	
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SEE NOTE 11 LEAD FREE OPTION	C	6	6	6	6	6	6	SEE NOTE 11 LEAD FREE OPTION	C	6	6	6	6	6	6	SEE NOTE 11 LEAD FREE OPTION	C	7	7	7	7	7	7	SEE NOTE 11 LEAD FREE OPTION	C	11	11	11	11	11	11	SEE NOTE 11 LEAD FREE OPTION	C	12	12	12	12	12	
	B	6	6	6	6	6	6		B	7	7	7	7	7	7		B	7	7	7	7	7	7		B	11	11	11	11	11	11		B	15	15	15	15	15	
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SEE NOTE 11 LEAD FREE OPTION	C	5	5	5	5	5	5	SEE NOTE 11 LEAD FREE OPTION	C	7	7	7	7	7	7	SEE NOTE 11 LEAD FREE OPTION	C	10	10	10	10	10	10	SEE NOTE 11 LEAD FREE OPTION	C	11	11	11	11	11	11	SEE NOTE 11 LEAD FREE OPTION	C	21	21	21	21	21	
	B	5	5	5	5	5	5		B	7	7	7	7	7	7		B	12	12	12	12	12	12		B	12	12	12	12	12	12		B	21	21	21	21	21	
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SEE NOTE 11 LEAD FREE OPTION	C	7	7	7	7	7	7	SEE NOTE 11 LEAD FREE OPTION	C	8	8	8	8	8	8	SEE NOTE 11 LEAD FREE OPTION	C	10	10	10	10	10	10	SEE NOTE 11 LEAD FREE OPTION	C	10	10	10	10	10	10	SEE NOTE 11 LEAD FREE OPTION	C	11	11	11	11	11	
	B	7	7	7	7	7	7		B	14	14	14	14	14	14		B	10	10	10	10	10	10		B	11	11	11	11	11	11		B	11	11	11	11	11	
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AL				angles	0.XX ± 0.13	projection		title	
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					M.STRAWSER 11/19/99	dwg no		213	
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sheet index	revision sheet					scale		5	
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	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
70232-X74 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
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	B	3	3	3	3	3	3
	A	3	3	3	3	3	3
70232-X78 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1
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	A	1	1	1	1	1	1
70232-X82 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6
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	B	8	8	8	8	8	8
	A	20	20	20	20	20	20
70232-X86 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20
	C	5	5	5	5	5	5
	B	5	5	5	5	5	5
	A	20	20	20	20	20	20
70232-X71 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	3	3	3	3	3	3
	B	1	1	1	1	1	1
	A	3	3	3	3	3	3
70232-X75 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	2	2	2	2
	A	3	3	3	3	3	3
70232-X79 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
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	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
70232-X83 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6
	C	7	7	7	7	7	7
	B	6	6	6	6	6	6
	A	7	7	7	7	7	7
70232-X87 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6
	C	7	7	7	7	7	7
	B	20	20	20	20	20	20
	A	7	7	7	7	7	7
70232-X72 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
	C	4	4	4	4	4	4
	B	4	4	4	4	4	4
	A	19	19	19	19	19	19
70232-X76 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19
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	B	1	1	1	1	1	1
	A	19	19	19	19	19	19
70232-X80 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8
	C	6	6	6	6	6	6
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70232-X84 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6
	C	7	7	7	7	7	7
	B	7	7	7	7	7	7
	A	7	7	7	7	7	7
70232-X88 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5
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	B	7	7	7	7	7	7
	A	5	5	5	5	5	5
70232-X73 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
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	A	3	3	3	3	3	3
70232-X77 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
	C	3	3	3	3	3	3
	B	19	19	19	19	19	19
	A	3	3	3	3	3	3
70232-X81 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7
	C	7	7	7	7	7	7
	B	5	5	5	5	5	5
	A	7	7	7	7	7	7
70232-X85 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6
	C	6	6	6	6	6	6
	B	6	6	6	6	6	6
	A	7	7	7	7	7	7
70232-X89 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7
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	A	6	6	6	6	6	6

mat'l code				tolerances unless otherwise specified		CUSTOMER	www.fciconnect.com					
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				chr	M.STRAWSER		11/19/99					
				appd	M.STRAWSER	02/29/00						
sheet index	revision sheet											

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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X90 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12
	C	10	10	10	10	10	10
	B	10	10	10	10	10	10
	A	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X94 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10
	C	11	11	11	11	11	11
	B	11	11	11	11	11	11
	A	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X98 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9
	C	9	9	9	9	9	9
	B	11	11	11	11	11	11
	A	9	9	9	9	9	9

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X91 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11
	C	11	11	11	11	11	11
	B	9	9	9	9	9	9
	A	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X95 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10
	C	10	10	10	10	10	10
	B	10	10	10	10	10	10
	A	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X99 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11
	C	10	10	10	10	10	10
	B	10	10	10	10	10	10
	A	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X92 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10
	C	12	12	12	12	12	12
	B	12	12	12	12	12	12
	A	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X96 SEE NOTE 11 LEAD FREE OPTION	D	21	21	21	21	21	21
	C	9	9	9	9	9	9
	B	9	9	9	9	9	9
	A	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X93 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10
	C	11	11	11	11	11	11
	B	10	10	10	10	10	10
	A	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
70232-X97 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10
	C	11	11	11	11	11	11
	B	21	21	21	21	21	21
	A	11	11	11	11	11	11



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mat'l code				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY			title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT		
AL					0.XX ±0.13	projection					
					.XXX ±.051						
				angles	0° ±2°				product family METRAL		
				dr	T.BRUNGARD	11/19/99	code 213				
				engr	M.STRAWSER	11/19/99				size 70232	
				chr	M.STRAWSER	11/19/99					sheet 7
				appd	M.STRAWSER	02/29/00					
sheet index	revision sheet										

1 | 2

3 |

4

PRODUCT NUMBER
70232-XYX
70232-XYXLF

NOTES:

1. FOR DIM A AND B SEE SHEET 2 AND UP.
2. BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
3. PIN MATERIAL:  
PHOSPHOR BRONZE.
4. PLATING ON PRESS-FIT TAIL:  
70232 -XYX IS SnPb  
70232-XYXLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.
5. PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
6. 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
7. PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073
8. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
9. -A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).
10. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
11. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 70232-X01LF
12. ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING (DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1--- AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMIM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

A

A



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B

B

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		title	
AL					0.XX ±0.13	projection		METRAL SIGNAL HEADER	
				angles	.XXX ±.051			1 MOD, 4 ROW PRESS-FIT	
				dr	0° ±2°	MM		product family	
				engr	T.BRUNGARD 11/19/99			METRAL	
				chr	M.STRAWSER 11/19/99	scale		code	
				appd	M.STRAWSER 02/29/00	1:1		213	
sheet	revision					A		8	
index	sheet							sheet	
								8	