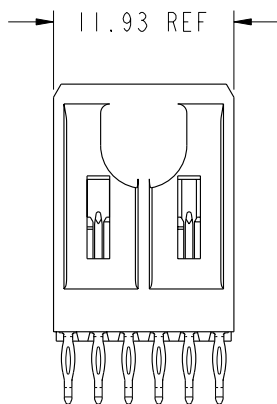
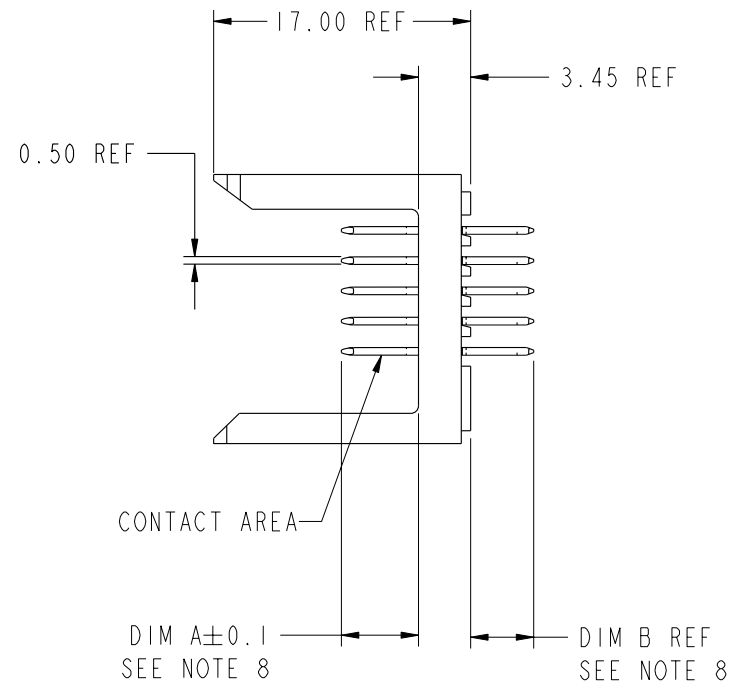
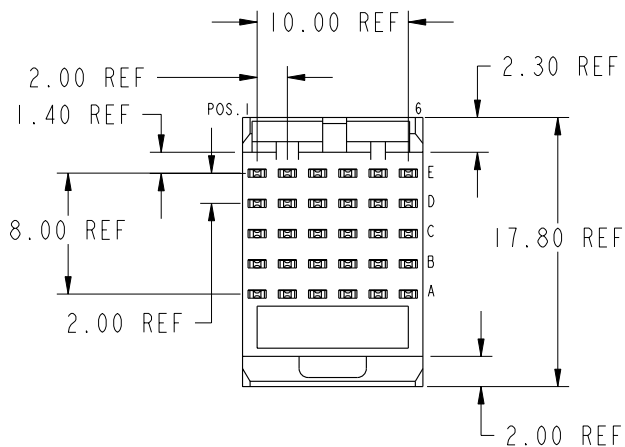







PRODUCT NUMBER
89025-XYX
89025-XYXLF



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CJ	V11715	JWS	07/02/01	angles	0° ±2°					product family		METRAL		code	
CK	V03-0031	TAB	02/08/03	dr	T.BRUNGARD	11/19/99				size	dwg no	89025	sheet	213	
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CM	V04-0459	LP	5/25/04	chr	M.STRAWER	11/19/99									
CN	V05-0030	DAI	02/10/05	appd	M.STRAWER	02/29/00									
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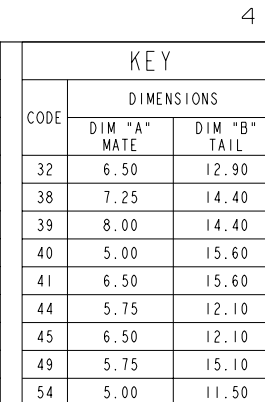
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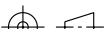
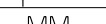
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PDM: Rev:CP

STATUS: Released

Printed: Dec 29, 2007






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REV E - 2006-04-18

STATUS: **Released** Printed: Dec 29, 2007



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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 SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT
CP				angles	0.XX ±0.13			product family	METRAL
					.XXX ±.051			size	dwg no
				dr	0° ±2°			code	213
				enr	T.BRUNGARD 11/19/99	MM		sheet	4
				chr	M.STRAWSE 11/19/99	scale			
				appd	M.STRAWSE 02/29/00	1:1			
sheet index	revision sheet								



METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X41 SEE NOTE 10 LEAD FREE OPTION		E	1	-	-	1	-	1
		D	1	-	-	1	-	1
		C	1	-	-	1	-	1
		B	1	-	-	1	-	1
		A	1	-	-	1	-	1
89025-X45 SEE NOTE 10 LEAD FREE OPTION		E	1	3	3	3	3	3
		D	3	3	3	3	3	3
		C	3	3	3	3	3	3
		B	3	3	3	3	3	3
		A	3	3	3	3	3	3

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X42 SEE NOTE 10 LEAD FREE OPTION		E	4	4	4	4	4	4
		D	4	4	4	4	4	4
		C	4	4	4	4	4	4
		B	19	19	19	19	19	19
		A	19	19	19	19	19	19
89025-X46 SEE NOTE 10 LEAD FREE OPTION		E	19	19	1	4	4	4
		D	19	19	1	4	4	4
		C	19	19	1	4	4	4
		B	19	19	1	4	4	4
		A	19	19	1	4	4	4

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X43 SEE NOTE 10 LEAD FREE OPTION		E	19	19	19	19	19	19
		D	19	19	19	19	19	19
		C	4	4	4	4	4	4
		B	4	4	4	4	4	4
		A	4	4	4	4	4	4
89025-X47 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	2	4	4
		D	2	2	2	2	4	4
		C	2	2	2	2	2	2
		B	2	2	2	2	19	19
		A	2	2	2	2	19	19

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X44 SEE NOTE 10 LEAD FREE OPTION		E	20	20	20	20	20	20
		D	20	20	20	20	20	20
		C	8	8	8	8	8	8
		B	8	8	8	8	8	8
		A	8	8	8	8	8	8
89025-X48 SEE NOTE 10 LEAD FREE OPTION		E	3	-	3	-	3	-
		D	3	-	3	-	3	-
		C	-	-	-	-	-	-
		B	3	-	3	-	3	-
		A	3	-	3	-	3	-

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X49 SEE NOTE 10 LEAD FREE OPTION		E	11	-	11	-	11	-
		D	11	-	11	-	11	-
		C	-	-	-	-	-	-
		B	11	-	11	-	11	-
		A	11	-	11	-	11	-
89025-X53 SEE NOTE 10 LEAD FREE OPTION		E	7	5	5	5	5	5
		D	7	5	5	5	5	5
		C	7	5	5	5	5	5
		B	7	5	5	5	5	5
		A	7	5	5	5	5	5

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X50 SEE NOTE 10 LEAD FREE OPTION		E	1	19	19	19	19	1
		D	1	19	19	19	19	1
		C	1	19	19	19	19	1
		B	1	19	19	19	19	1
		A	1	19	19	19	19	1
89025-X54 SEE NOTE 10 LEAD FREE OPTION		E	22	22	22	22	22	22
		D	22	22	22	22	22	22
		C	22	22	22	22	22	22
		B	22	22	22	22	22	22
		A	22	22	22	22	22	22

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X51 SEE NOTE 10 LEAD FREE OPTION		E	-	2	-	2	-	2
		D	-	-	-	-	-	-
		C	-	2	-	2	-	2
		B	-	-	-	-	-	-
		A	-	2	-	2	-	2
89025-X55 SEE NOTE 10 LEAD FREE OPTION		E	19	19	19	19	19	19
		D	1	1	19	19	19	19
		C	1	1	19	19	19	19
		B	1	1	19	19	19	19
		A	1	1	19	19	19	19

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X52 SEE NOTE 10 LEAD FREE OPTION		E	1	3	3	3	3	19
		D	3	3	3	3	3	19
		C	3	3	3	3	3	19
		B	3	3	3	3	3	19
		A	3	3	3	3	3	19
89025-X56 SEE NOTE 10 LEAD FREE OPTION		E	7	7	7	7	7	7
		D	7	7	44	7	7	7
		C	7	7	7	7	7	7
		B	7	7	7	7	7	7
		A	7	7	7	7	7	7

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X57 SEE NOTE 10 LEAD FREE OPTION		E	4	4	4	4	4	4
		D	13	4	4	4	4	4
		C	13	4	4	4	4	4
		B	4	4	4	4	4	4
		A	13	13	13	13	13	13
89025-X58 SEE NOTE 10 LEAD FREE OPTION		E	20	7	7	7	7	7
		D	20	7	7	7	7	7
		C	20	7	7	7	7	7
		B	20	7	7	7	7	7
		A	20	7	7	7	7	7

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X59 SEE NOTE 10 LEAD FREE OPTION		E	19	3	3	3	3	3
		D	19	3	3	3	3	3
		C	19	3	3	3	3	3
		B	19	3	3	3	3	3
		A	19	3	3	3	3	3
89025-X60 SEE NOTE 10 LEAD FREE OPTION		E	19	19	19	19	19	-
		D	19	19	19	19	19	-
		C	19	19	19	19	19	-
		B	19	19	19	19	19	-
		A	19	19	19	19	19	-

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCj	
Itr				ecr no.		dr		date	
CP						linear		projection	
						angles		MM	
						dr		T.BRUNGARD 11/19/99	
						enrg		M.STRAWSER 11/19/99	
						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					
		I	2	3	4	5	6
89025-X81 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	1	1
	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X85 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	3	-
	D	-	-	-	-	3	-
	C	-	-	-	-	-	-
	B	-	-	-	-	3	-
	A	-	-	-	3	3	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X89 SEE NOTE 10 LEAD FREE OPTION	E	4	2	2	2	2	2
	D	4	2	2	2	2	2
	C	4	2	2	2	2	2
	B	4	2	2	2	2	2
	A	4	2	2	2	1	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X93 SEE NOTE 10 LEAD FREE OPTION	E	2	3	2	2	4	4
	D	2	3	2	2	4	4
	C	2	3	2	2	4	4
	B	2	3	2	2	4	4
	A	2	3	2	2	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X97 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	-	3
	D	3	3	3	3	-	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	-	-	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X82 SEE NOTE 10 LEAD FREE OPTION	E	7	-	38	38	-	7
	D	7	-	38	38	-	7
	C	7	-	38	38	-	7
	B	7	-	38	38	-	7
	A	7	-	38	38	-	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X86 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	3	3
	D	19	3	3	3	3	1
	C	19	3	3	3	3	1
	B	19	3	3	3	3	2
	A	19	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X90 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	2	1
	D	19	3	3	3	2	1
	C	19	3	3	3	2	1
	B	19	3	3	3	2	1
	A	19	3	3	3	2	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X94 SEE NOTE 10 LEAD FREE OPTION	E	1	19	3	3	3	3
	D	3	19	3	3	3	3
	C	3	19	3	3	3	3
	B	19	19	3	3	3	3
	A	19	19	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X98 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	19	19	19
	D	4	4	4	19	19	19
	C	4	4	4	19	19	19
	B	4	4	4	19	19	19
	A	4	4	4	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X83 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	-	1	1
	D	1	1	1	-	1	1
	C	1	1	1	-	1	1
	B	1	1	1	-	-	-
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X87 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	1	2
	D	2	2	2	2	2	2
	C	3	3	3	3	3	3
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X91 SEE NOTE 10 LEAD FREE OPTION	E	20	7	7	7	6	5
	D	20	7	7	7	6	5
	C	20	7	7	7	6	5
	B	20	7	7	7	6	5
	A	20	7	7	7	6	5

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X95 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	1	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2


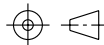
METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X99 SEE NOTE 10 LEAD FREE OPTION	E	8	8	8	20	20	20
	D	8	8	8	20	20	20
	C	8	8	8	20	20	20
	B	8	8	8	20	20	20
	A	8	8	8	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X84 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7
	D	7	4	1	7	7	7
	C	4	1	7	4	1	7
	B	7	7	4	1	7	7
	A	7	7	7	4	5	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X88 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	4	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X92 SEE NOTE 10 LEAD FREE OPTION	E	19	4	4	4	4	4
	D	19	4	4	4	4	4
	C	19	4	4	4	4	4
	B	19	4	4	4	4	4
	A	19	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89025-X96 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	-	3	3
	D	3	3	3	-	3	3
	C	3	3	3	-	3	3
	B	3	3	3	-	-	-
	A	3	3	3	3	3	3

mat'l code				--				tolerances unless otherwise specified				CUSTOMER		 www.fciconnect.com			
Itr	ecn no.	dr	date	linear	0.X ±0.3			COPY			title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT						
CP					0.XX ±0.13			projection									
					.XXX ±.051												
					angles	0° ±2°											
					dr	T.BRUNGARD 11/19/99											
				enrg	M.STRAWSER 11/19/99					product family		METRAL		code			
				chr	M.STRAWSER 11/19/99					size		dwg no		213			
				appd	M.STRAWSER 02/29/00					scale		A		89025		sheet	
sheet index		revision sheet															

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

PRODUCT NUMBER

89025-XYX

89025-XYXLF

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:
55422 -XYX IS SnPb
55422-XYXLF 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-I2-180
APPLICATION SPECIFICATION BUS-20-073
- 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.

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 MAXIMUM 140°C FOR
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

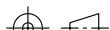

- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
EXAMPLE: 89025-X01LF

PLATING IN CONTACT AREA

DASH NUMBER	PERFORMANCE LEVEL	NOTES
-N1YY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-N1YYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 9
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 9
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 9
-2YYLF	TELECOM CLASS	SEE NOTE 9
-5YYLF	TELCORDIA UE	SEE NOTE 9



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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 SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT							
CP					0.XX ±0.13												
					.XXX ±.051												
				angles	0° ±2°												
				dr	T.BRUNGARD	11/19/99			product family				METRAL		code		
				enrg	M.STRAWSER	11/19/99									213		
				chr	M.STRAWSER	11/19/99	scale		size		dwg no		89025				
				appd	M.STRAWSER	02/29/00	1:1		A				sheet 8				
sheet index		revision sheet															