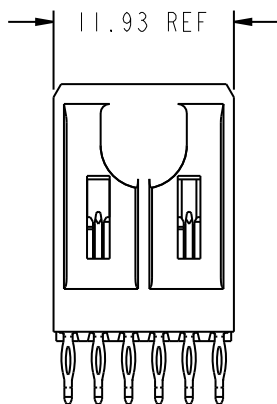
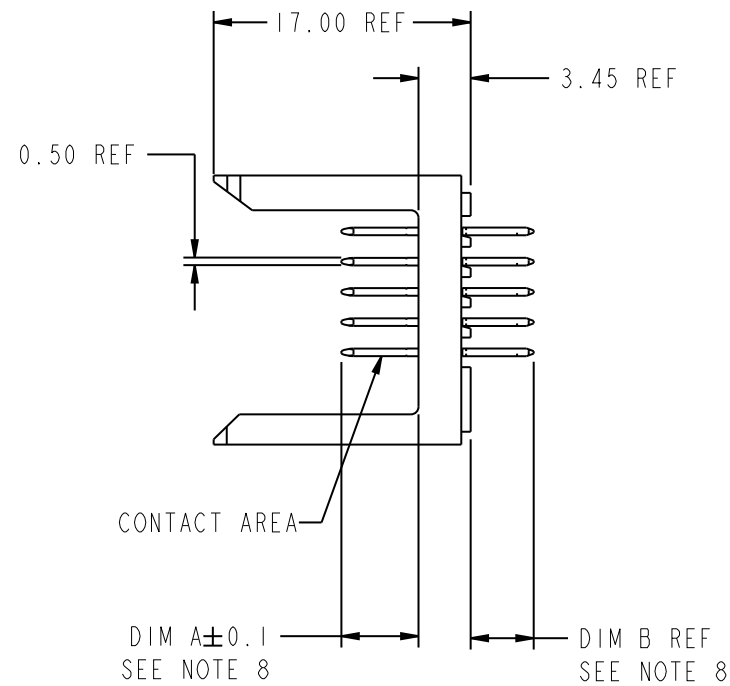
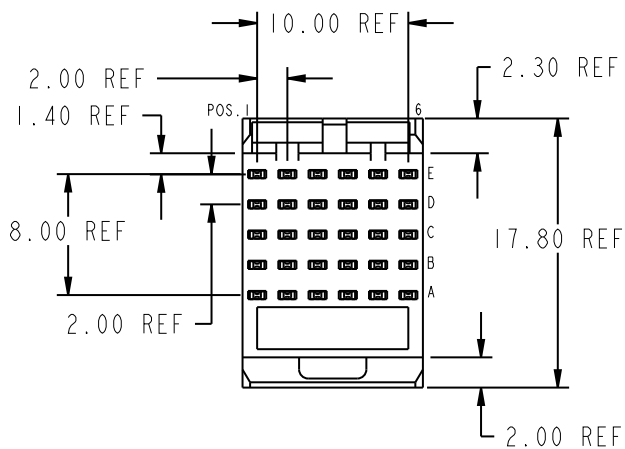




PRODUCT NUMBER
89025-XYX
89025-XYXLF

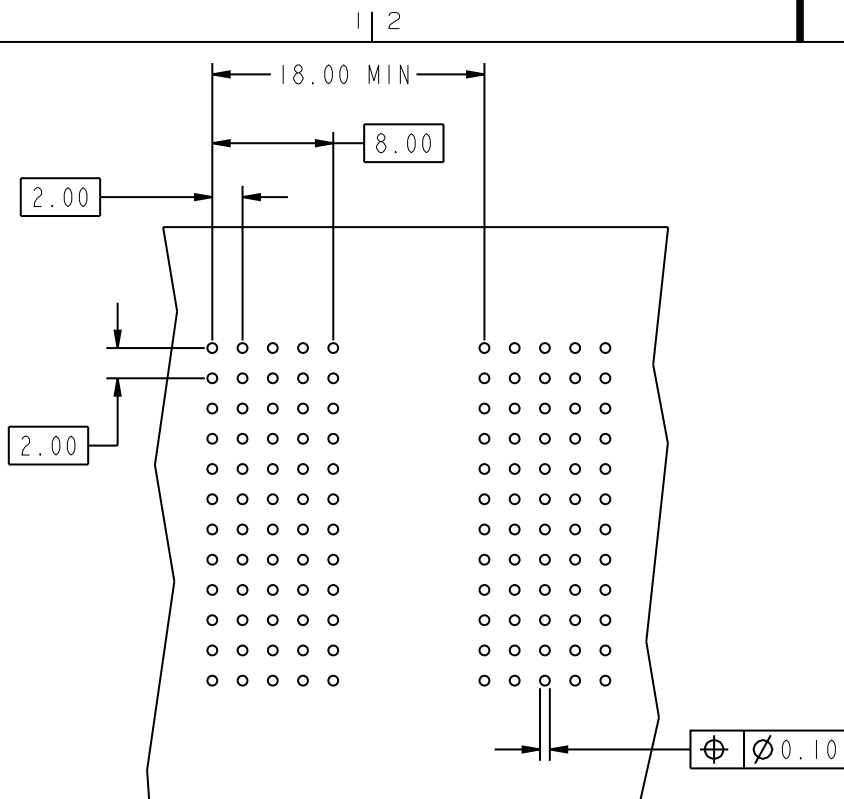


mat'l code				--		tolerances unless otherwise specified		CUSTOMER				www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3		projection	COPY		title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT			
CP	V06-0573	DCH	2006-06-14		0.XX ±0.13								
CR	DG09-0256	TER	2009-08-19		.XXX ±.051								
-	-	-	-	angles	0° ±2°		  scale 2:1	product family		METRAL		code	
CK	V03-0031	TAB	02/08/03	dr	T.BRUNGARD 11/19/99			size	dwg no	89025		213 sheet 1 of 8	
CL	V03-1321	DAI	01/15/04	enrg	M.STRAWER 11/19/99								
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								
sheet index		revision		CR	CR	CR	CR	CR	CR	CR	CR	CR	CR
sheet		sheet		1	2	3	4	5	6	7	8		



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REV E - 2006-04-10



REQUIRED PC BOARD LAYOUT
COMPONENT SIDE
SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

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
22	5.00	12.10
23	8.00	17.70
24	6.50	16.30
25	5.75	15.60
26	5.00	14.90
27	5.75	12.40
29	8.00	14.60

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
32	6.50	12.90
38	7.25	14.40
39	8.00	14.40
40	5.00	15.60
41	6.50	15.60
44	5.75	12.10
45	6.50	12.10
49	5.75	15.10
54	5.00	11.50

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

Pro/E

cage code 22526

PDM: Rev:CR

STATUS:Released

Printed: Sep 16, 2009



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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														
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89025-X01 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10	89025-X05 SEE NOTE 10 LEAD FREE OPTION		E	26	12	12	12	12	23	89025-X09 SEE NOTE 10 LEAD FREE OPTION		E	21	21	11	11	11	11	89025-X13 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10	89025-X17 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	2	2	2
		D	10	10	10	10	10	10			D	26	12	12	12	12	23			D	21	21	11	11	11	11			D	9	9	9	9	9	9			D	2	2	2	2	2	2
		C	9	9	9	9	9	9			C	23	12	12	12	12	23			C	21	21	11	11	11	11			C	10	10	10	10	10	10			C	4	4	4	4	4	4
		B	10	10	10	10	10	10			B	24	12	12	12	12	23			B	21	21	11	11	11	11			B	10	10	10	10	10	10			B	2	2	2	2	2	1
		A	3	3	3	3	3	3			A	24	12	12	12	12	23			A	21	21	11	11	11	11			A	2	2	2	2	2	2			A	2	2	2	2	2	2
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	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6
89025-X02 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	3	3	2	89025-X06 SEE NOTE 10 LEAD FREE OPTION		E	25	25	25	25	25	25	89025-X10 SEE NOTE 10 LEAD FREE OPTION		E	3	19	3	3	19	3	89025-X14 SEE NOTE 10 LEAD FREE OPTION		E	25	25	25	25	25	25	89025-X18 SEE NOTE 10 LEAD FREE OPTION		E	6	6	6	6	6	6
		D	2	2	2	3	2	2			D	25	25	25	25	25	25			D	19	3	3	19	3	3			D	25	25	25	25	25	25			D	6	6	6	6	6	6
		C	2	1	2	3	3	2			C	25	25	25	25	25	25			C	3	1	19	3	3	19			C	25	25	25	25	25	25			C	8	8	8	8	8	8
		B	2	2	2	3	2	2			B	25	25	25	25	25	25			B	3	19	3	3	19	3			B	25	25	25	25	25	25			B	6	6	6	6	6	5
		A	2	2	2	3	3	2			A	25	25	25	25	25	25			A	3	3	19	3	3	3			A	2	2	2	2	2	2			A	6	6	6	6	6	6
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														
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89025-X03 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	3	2	2	89025-X07 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	2	2	2	89025-X11 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10	89025-X15 SEE NOTE 10 LEAD FREE OPTION		E	3	3	19	19	3	3	89025-X19 SEE NOTE 10 LEAD FREE OPTION		E	19	19	19	1	1	1
		D	2	2	2	3	2	2			D	6	6	6	6	6	6			D	10	10	10	10	10	10			D	3	3	19	19	3	3			D	3	3	3	3	3	3
		C	2	1	2	3	2	2			C	6	6	6	6	6	6			C	10	10	10	10	10	10			C	3	3	19	19	3	3			C	3	3	3	3	3	3
		B	2	2	2	3	2	2			B	6	6	6	6	6	6			B	10	10	10	10	10	10			B	3	3	19	19	3	3			B	3	3	3	3	3	3
		A	2	2	2	3	2	2			A	6	6	6	6	6	6			A	2	2	2	2	2	2			A	3	3	19	19	3	3			A	3	3	3	3	3	3
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	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6
89025-X04 SEE NOTE 10 LEAD FREE OPTION		E	12	25	23	23	23	25	89025-X08 SEE NOTE 10 LEAD FREE OPTION		E	4	2	19	19	19	2	89025-X12 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10	89025-X16 SEE NOTE 10 LEAD FREE OPTION		E	3	3	19	19	3	4	89025-X20 SEE NOTE 10 LEAD FREE OPTION		E	1	4	4	4	4	19
		D	12	25	23	23	23	25			D	4	2	19	19	19	2			D	9	9	9	9	9	9			D	3	3	19	19	3	4			D	1	4	4	4	4	19
		C	12	25	23	23	23	25			C	4	2	19	19	19	2			C	10	10	10	10	10	10			C	3	3	19	19	3	4			C	19	4	4	4	4	19
		B	12	25	23	23	23	25			B	4	2	19	19	19	2			B	10	10	10	10	10	10			B	3	3	19	19	3	4			B	3	4	4	4	4	19
		A	12	25	23	23	23	25			A	4	2	19	19	19	2			A	3	3	3	3	3	3			A	3	3	19	19	3	4			A	3	4	4	4	4	19
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														
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mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT
CR					0.XX ±0.13				
					.XXX ±.051				
				angles	0° ±2°	MM		product family METRAL	code 213
				dr	T.BRUNGARD	11/19/99	scale 1:1		
				engr	M.STRAWSE	11/19/99			
				chr	M.STRAWSE	11/19/99			
				appd	M.STRAWSE	02/29/00		size	dwg no
sheet		revision						A	89025
index		sheet							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						METRAL P/N		ROW	CONTACT CODE MOD. I															
89025-X21 SEE NOTE 10 LEAD FREE OPTION		E	25	25	25	25	25	25	89025-X25 SEE NOTE 10 LEAD FREE OPTION		E	-	-	-	-	-	89025-X29 SEE NOTE 10 LEAD FREE OPTION		E	-	-	-	-	-	89025-X33 SEE NOTE 10 LEAD FREE OPTION		E	25	25	25	25	25	25	89025-X37 SEE NOTE 10 LEAD FREE OPTION		E	1	1	1	1	1	1			
		D	40	40	40	40	40	40			D	3	3	3	3	3			3	D	1	1	1	1			1	1	D	40	40	40	40			40	40								
		C	25	25	25	25	25	25			C	3	3	3	3	3			3	C	25	25	25	25			25	25	C	1	1	1	1			1	1	1							
		B	25	25	25	25	25	25			B	3	3	3	3	3			3	B	25	25	25	25			25	25	B	1	1	1	1			1	1	1							
		A	3	3	3	3	3	3			A	3	3	3	3	3			3	A	4	4	4	4			4	4	4	A	1	1	1			1	1	1	1						
89025-X22 SEE NOTE 10 LEAD FREE OPTION		E	1	1	1	1	1	1	89025-X26 SEE NOTE 10 LEAD FREE OPTION		E	-	-	-	-	-	89025-X30 SEE NOTE 10 LEAD FREE OPTION		E	1	4	1	1	1	1	89025-X34 SEE NOTE 10 LEAD FREE OPTION		E	4	4	4	13	13	13	89025-X38 SEE NOTE 10 LEAD FREE OPTION		E	49	49	49	49	49	49		
		D	1	1	1	1	1	1			D	3	3	-	-	-			-	D	1	1	1	1	1			4	D	4	4	4	13	13			13	D	49	49	49	49	49		
		C	1	1	1	1	1	1			C	3	3	-	-	-			-	C	1	1	1	4	1			1	C	4	4	4	13	13			13	C	49	49	49	49	49		
		B	19	4	4	4	4	4			B	3	3	-	-	-			-	B	1	4	1	1	1			1	B	4	4	4	13	13			13	B	49	49	49	49	49		
		A	1	1	1	1	1	1			A	3	3	-	-	-			-	A	1	1	1	1	1			4	A	4	4	4	13	13			13	A	49	49	49	49	49		
89025-X23 SEE NOTE 10 LEAD FREE OPTION		E	2	-	2	-	2	-	89025-X27 SEE NOTE 10 LEAD FREE OPTION		E	32	32	32	32	32	32	89025-X31 SEE NOTE 10 LEAD FREE OPTION		E	1	1	1	3	1	1	89025-X35 SEE NOTE 10 LEAD FREE OPTION		E	1	1	1	1	1	1	89025-X39 SEE NOTE 10 LEAD FREE OPTION		E	44	44	44	44	44	44	
		D	-	-	-	-	-	-			D	32	32	32	32	32	32			D	1	1	1	3	1	1			D	40	1	1	1	1	1			1	D	44	44	44	44	44	
		C	2	-	2	-	2	-			C	32	32	32	32	32	32			C	3	3	1	3	1	1			C	1	1	1	1	1	1			1	C	44	44	44	44	44	
		B	-	-	-	-	-	-			B	32	32	32	32	32	32			B	1	1	1	1	1	1			B	1	1	1	1	1	1			1	B	44	44	44	44	44	
		A	2	-	2	-	2	-			A	32	32	32	32	32	32			A	4	4	4	4	4	4			A	1	1	1	1	1	1			1	A	44	44	44	44	44	
89025-X24 SEE NOTE 10 LEAD FREE OPTION		E	4	2	2	2	2	2	89025-X28 SEE NOTE 10 LEAD FREE OPTION		E	-	-	-	-	-	89025-X32 SEE NOTE 10 LEAD FREE OPTION		E	45	45	45	45	45	45	89025-X36 SEE NOTE 10 LEAD FREE OPTION		E	8	8	8	14	14	14	89025-X40 SEE NOTE 10 LEAD FREE OPTION		E	12	12	12	15	15	15		
		D	4	2	2	2	2	2			D	1	1	1	1	1			1	D	45	45	45	45	45			45	D	8	8	8	14	14			14	14	D	12	12	12	15	15	15
		C	4	2	2	2	2	2			C	1	1	1	1	1			1	C	45	45	45	45	45			45	C	8	8	8	14	14			14	14	C	12	12	12	15	15	15
		B	4	2	2	2	2	2			B	1	1	1	1	1			1	B	45	45	45	45	45			45	B	8	8	8	14	14			14	14	B	12	12	12	15	15	15
		A	4	2	2	2	2	2			A	1	1	1	1	1			1	A	45	45	45	45	45			45	A	8	8	8	14	14			14	14	A	12	12	12	15	15	15

mat'l code

- -

tolerances unless otherwise specified

linear

0. X ±0.3

0. XX ±0.13

.XXX ±.051

0° ±°

dr

T.BRUNGARD

11/19/99

engr

M.STRAWSER

11/19/99

chr

M.STRAWSER

11/19/99

appd

M.STRAWSER

02/29/00

sheet index

revision sheet

CUSTOMER

COPY

projection

title

METRAL SIGNAL HEADER

1 MOD, 5 ROW PRESS-FIT

product family

METRAL

code

213

size

dwg no

89025

sheet

4

scale

1:1

A

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com		
lfr	ecn no.	dr	date	linear	0.X ± 0.3		COPY					
CR					0.XX ± 0.13		projection					
					.XXX $\pm .051$							
				angles	0° $\pm 2^\circ$							
				dr	T.BRUNGARD	11/19/99			product family		METRAL	
				enrg	M.STRAWSE	11/19/99			size		dwg no	213
				chr	M.STRAWSE	11/19/99			A		89025	sheet
				appd	M.STRAWSE	02/29/00					4	
sheet index		revision sheet										

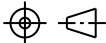


1 2												3												4																					
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I															
89025-X41 SEE NOTE 10 LEAD FREE OPTION	E	1	-	-	1	-	1	89025-X45 SEE NOTE 10 LEAD FREE OPTION	E	1	3	3	3	3	3	89025-X49 SEE NOTE 10 LEAD FREE OPTION	E	1	1	-	1	1	-	1	1	-	89025-X53 SEE NOTE 10 LEAD FREE OPTION	E	7	5	5	5	5	5	89025-X57 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4			
	D	1	-	-	1	-	1		D	3	3	3	3	3	3		D	1	1	-	1	1	-	1	1	-		D	7	5	5	5	5	5		D	13	4	4	4	4	4			
	C	1	-	-	1	-	1		C	3	3	3	3	3	3		C	-	-	-	-	-	-	-	C	7		5	5	5	5	5	C	13		4	4	4	4	4					
	B	1	-	-	1	-	1		B	3	3	3	3	3	3		B	1	1	-	1	1	-	1	1	-		B	7	5	5	5	5	5		B	4	4	4	4	4	4			
	A	1	-	-	1	-	1		A	3	3	3	3	3	3		A	1	1	-	1	1	-	1	1	-		A	7	5	5	5	5	5		A	13	13	13	13	13	13			
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															
89025-X42 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	89025-X46 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	9	1	9	1	89025-X50 SEE NOTE 10 LEAD FREE OPTION	E	1	1	9	1	9	1	9	1	89025-X54 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	89025-X58 SEE NOTE 10 LEAD FREE OPTION	E	2	0	7	7	7	7	7		
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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															
89025-X43 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	9	1	9	1	89025-X47 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	4	4	89025-X51 SEE NOTE 10 LEAD FREE OPTION	E	-	2	-	2	-	2	89025-X55 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	9	1	9	1	89025-X59 SEE NOTE 10 LEAD FREE OPTION	E	1	9	3	3	3	3	3			
	D	1	9	1	9	1	9	1		D	2	2	2	2	4	4		D	-	-	-	-	-	-		D	1	1	9	1	9	1	9		1	D	1	9	3	3	3	3	3		
	C	4	4	4	4	4	4	C		2	2	2	2	2	2	C		-	2	-	2	-	2	C		1	1	9	1	9	1	9	1		C	1	9	3	3	3	3	3			
	B	4	4	4	4	4	4	B		2	2	2	2	1	9	1		B	-	-	-	-	-	-		B	1	1	9	1	9	1	9		1	B	1	9	3	3	3	3	3		
	A	4	4	4	4	4	4	A		2	2	2	2	1	9	1		A	-	2	-	2	-	2		A	1	1	9	1	9	1	9		1	A	1	9	3	3	3	3	3		
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															
89025-X44 SEE NOTE 10 LEAD FREE OPTION	E	2	0	2	0	2	0	2	89025-X48 SEE NOTE 10 LEAD FREE OPTION	E	3	-	3	-	3	-	89025-X52 SEE NOTE 10 LEAD FREE OPTION	E	1	3	3	3	3	1	89025-X56 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7	89025-X60 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	9	1	9	-				
	D	2	0	2	0	2	0	2		D	3	-	3	-	3	-		D	3	3	3	3	3	1		D	7	7	4	4	7	7		7	D	1	9	1	9	1	9	-			
	C	8	8	8	8	8	8	C		-	-	-	-	-	-	C		3	3	3	3	3	1	C		7	7	7	7	7	7	C		1	9	1	9	1	9	-					
	B	8	8	8	8	8	8	B		3	-	3	-	3	-	B		3	3	3	3	3	1	B		7	7	7	7	7	7	B		1	9	1	9	1	9	-					
	A	8	8	8	8	8	8	A		3	-	3	-	3	-	A		3	3	3	3	3	1	A		7	7	7	7	7	7	A		1	9	1	9	1	9	-					

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



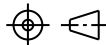
1						2						3						4																				
METRAL P/N		ROW	CONTACT CODE MOD. I					METRAL P/N		ROW	CONTACT CODE MOD. I					METRAL P/N		ROW	CONTACT CODE MOD. I					METRAL P/N		ROW	CONTACT CODE MOD. I											
89025-X61 SEE NOTE 10 LEAD FREE OPTION	E	1	19	3	3	3	89025-X65 SEE NOTE 10 LEAD FREE OPTION	E	1	19	3	3	3	19	89025-X69 SEE NOTE 10 LEAD FREE OPTION	E	14	6	8	8	8	8	89025-X73 SEE NOTE 10 LEAD FREE OPTION	E	-	2	-	2	-	2	89025-X77 SEE NOTE 10 LEAD FREE OPTION	E	7	7	5	20	7	7
	D	3	19	3	3	3		D	3	3	3	3	3	19		D	14	7	8	8	8	D		2	-	2	-	2	-	D		7	7	7	7	7	7	
	C	3	19	3	3	3		C	3	3	3	3	3	19		C	14	7	8	8	8	C		-	2	-	2	-	2	C		7	7	7	7	7	7	
	B	19	19	3	3	3		B	3	3	3	3	3	19		B	14	7	8	8	8	B		2	-	2	-	2	-	B		7	7	7	7	7	7	
	A	19	19	3	3	3		A	3	3	3	3	3	19		A	14	7	5	8	8	8		A	-	2	-	2	-	2		A	7	7	7	7	7	7
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											
89025-X62 SEE NOTE 10 LEAD FREE OPTION	E	1	-	1	-	1	89025-X66 SEE NOTE 10 LEAD FREE OPTION	E	3	1	1	1	1	1	89025-X70 SEE NOTE 10 LEAD FREE OPTION	E	13	2	4	4	4	4	89025-X74 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	-	89025-X78 SEE NOTE 10 LEAD FREE OPTION	E	54	54	39	54	54	54	
	D	-	1	-	1	-		D	3	1	1	1	1	1		D	13	3	4	4	4	4		D	2	-	2	-	2		-	D	54	54	39	54	54	54
	C	1	-	1	-	1		C	3	1	1	1	1	1		C	13	3	4	4	4	4		C	-	2	-	2	-		2	C	54	54	39	54	54	54
	B	-	1	-	1	-		B	3	1	1	1	1	1		B	13	3	4	4	4	4		B	2	-	2	-	2		-	B	54	54	39	54	54	54
	A	1	-	1	-	1		A	3	1	1	1	1	1		A	13	3	1	4	4	4		A	-	2	-	2	-		2	A	54	54	39	54	54	54
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											
89025-X63 SEE NOTE 10 LEAD FREE OPTION	E	8	27	29	29	27	89025-X67 SEE NOTE 10 LEAD FREE OPTION	E	20	20	20	20	20	20	89025-X71 SEE NOTE 10 LEAD FREE OPTION	E	20	20	20	8	8	8	89025-X75 SEE NOTE 10 LEAD FREE OPTION	E	54	54	54	54	39	54	89025-X79 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1
	D	8	27	29	29	27		D	5	5	20	20	20	20		D	20	20	20	8	8	8		D	54	54	54	54	39	54		D	1	1	1	1	1	1
	C	8	27	29	29	27		C	5	5	20	20	20	20		C	20	20	20	8	8	8		C	54	54	54	54	39	54		C	2	2	2	2	1	1
	B	8	27	29	29	27		B	5	5	20	20	20	20		B	20	20	20	8	8	8		B	54	54	54	54	39	54		B	1	1	1	1	1	1
	A	8	27	29	29	27		A	5	5	20	20	20	20		A	20	20	20	8	8	8		A	54	54	54	54	39	54		A	1	1	1	1	1	1
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											
89025-X64 SEE NOTE 10 LEAD FREE OPTION	E	45	-	45	-	45	89025-X68 SEE NOTE 10 LEAD FREE OPTION	E	21	21	21	21	21	21	89025-X72 SEE NOTE 10 LEAD FREE OPTION	E	19	19	19	4	4	4	89025-X76 SEE NOTE 10 LEAD FREE OPTION	E	3	3	1	19	3	3	89025-X80 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	5
	D	45	-	45	-	45		D	9	9	21	21	21	21		D	19	19	19	4	4	4		D	3	3	3	3	3	3		D	5	5	5	5	5	5
	C	-	-	-	-	-		C	9	9	21	21	21	21		C	19	19	19	4	4	4		C	3	3	3	3	3	3		C	6	6	6	6	5	5
	B	45	-	45	-	45		B	9	9	21	21	21	21		B	19	19	19	4	4	4		B	3	3	3	3	3	3		B	5	5	5	5	5	5
	A	45	-	45	-	45		A	9	9	21	21	21	21		A	19	19	19	4	4	4		A	3	3	3	3	3	3		A	5	5	5	5	5	5

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mat'l code				tolerances unless otherwise specified				CUSTOMER		FCJ		www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3			COPY		projection	title		
CR					0.XX ±0.13						METRAL SIGNAL HEADER		
					.XXX ±.051						1 MOD, 5 ROW PRESS-FIT		
					0° ±2°								
				angles	dr	T.BRUNGARD	11/19/99	MM	scale	1:1	product family		code
				enrg	M.STRAWSE	11/19/99	METRAL				213		
				chr	M.STRAWSE	11/19/99	size				6		
				appd	M.STRAWSE	02/29/00	dwg no				89025		
sheet index		revision sheet											



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										
89025-X81 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	89025-X85 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	3	-	89025-X89 SEE NOTE 10 LEAD FREE OPTION	E	4	2	2	2	2	2	89025-X93 SEE NOTE 10 LEAD FREE OPTION	E	2	3	2	2	4	4	89025-X97 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	-	3	
	D	2	2	2	2	2	2		D	-	-	-	-	3	-		D	4	2	2	2	2	2		D	2	3	2	2	4	4		D	3	3	3	3	-	3	
	C	2	2	2	2	2	1		1	C	-	-	-	-	-		-	C	4	2	2	2	2		2	C	2	3	2	2	4		4	C	3	3	3	3	3	3
	B	1	1	1	1	1	1		B	-	-	-	-	3	-		B	4	2	2	2	2	2		2	B	2	3	2	2	4		4	B	3	3	3	3	3	3
	A	1	1	1	1	1	1		A	-	-	-	3	3	-		A	4	2	2	2	2	1		4	A	2	3	2	2	4		4	A	3	3	3	-	-	3
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										
89025-X82 SEE NOTE 10 LEAD FREE OPTION	E	7	-	38	38	-	7	89025-X86 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	3	3	89025-X90 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	2	1	89025-X94 SEE NOTE 10 LEAD FREE OPTION	E	1	19	3	3	3	3	89025-X98 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	19	19	19	
	D	7	-	38	38	-	7		D	19	3	3	3	3	1		D	19	3	3	3	2	1		D	3	19	3	3	3	3		D	4	4	4	19	19	19	
	C	7	-	38	38	-	7		C	19	3	3	3	3	1		C	19	3	3	3	2	1		C	3	19	3	3	3	3		C	4	4	4	19	19	19	
	B	7	-	38	38	-	7		B	19	3	3	3	3	2		B	19	3	3	3	2	1		B	19	19	3	3	3	3		B	4	4	4	19	19	19	
	A	7	-	38	38	-	7		A	19	3	3	3	3	3		A	19	3	3	3	2	1		A	19	19	3	3	3	3		A	4	4	4	19	19	19	
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										
89025-X83 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	-	1	1	89025-X87 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	1	2	89025-X91 SEE NOTE 10 LEAD FREE OPTION	E	20	7	7	7	6	5	89025-X95 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	89025-X99 SEE NOTE 10 LEAD FREE OPTION	E	8	8	8	20	20	20	
	D	1	1	1	-	1	1		D	2	2	2	2	2	2		D	20	7	7	7	6	5		D	2	2	2	2	2	2		D	8	8	8	20	20	20	
	C	1	1	1	-	1	1		C	3	3	3	3	3	3		C	20	7	7	7	6	5		C	1	2	2	2	2	2		C	8	8	8	20	20	20	
	B	1	1	1	-	-	-		B	2	2	2	2	2	2		B	20	7	7	7	6	5		B	2	2	2	2	2	2		B	8	8	8	20	20	20	
	A	1	1	1	1	1	1		A	2	2	2	2	2	2		A	20	7	7	7	6	5		A	2	2	2	2	2	2		A	8	8	8	20	20	20	
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										
89025-X84 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7	89025-X88 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	89025-X92 SEE NOTE 10 LEAD FREE OPTION	E	19	4	4	4	4	4	89025-X96 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	-	3	3		E	3	3	3	-	3	3	
	D	7	4	1	7	7	7		D	2	2	2	2	2	2		D	19	4	4	4	4	4		D	3	3	3	-	3	3		D	3	3	3	-	3	3	
	C	4	1	7	4	1	7		7	C	4	2	2	2	2		2	C	19	4	4	4	4		4	C	3	3	3	-	3		3	C	3	3	3	-	3	3
	B	7	7	4	1	7	7		7	B	2	2	2	2	2		2	B	19	4	4	4	4		4	B	3	3	3	-	-		-	B	3	3	3	-	-	-
	A	7	7	7	4	5	7		7	A	2	2	2	2	2		2	A	19	4	4	4	4		4	A	3	3	3	3	3		3	A	3	3	3	3	3	3

mat'l code				- -				tolerances unless otherwise specified				CUSTOMER		 www.fciconnect.com			
lfr	ecn no.	dr	date	linear	0.X ±0.3				COPY			title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT					
CR					0.XX ±0.13				projection								
					.XXX ±.051												
					0° ±2°												
				angles													
				dr	T.BRUNGARD 11/19/99						product family METRAL				code 213		
				engr	M.STRAWSER 11/19/99												
				chr	M.STRAWSER 11/19/99												
				appd	M.STRAWSER 02/29/00				scale 1:1		A		size 89025		sheet 7		
sheet index	revision sheet																

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3		COPY		title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT		
CR					0.XX ±0.13		projection				
					.XXX ±.051						
				angles	0° ±2°				product family METRAL code 213 sheet 7		
				dr	T.BRUNGARD	11/19/99	MM				
				enrg	M.STRAWSE	11/19/99	scale				
				chr	M.STRAWSE	11/19/99	1:1		cage code 22526		
				appd	M.STRAWSE	02/29/00					
sheet index	revision sheet										

PRODUCT NUMBER

89025-XYX

89025-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:
55422 -XYX IS SnPb
55422-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-I2-180
APPLICATION SPECIFICATION BUS-20-073
8. AFTER INSERTION INTO CIRCUIT BOARD WITH
QUALIFIED TOOL.
9. 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.
10. 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	-
-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		projection	title		
CR					0.XX ±0.13				METRAL SIGNAL HEADER		
					.XXX ±.051				1 MOD, 5 ROW PRESS-FIT		
				angles	0° ±2°				product family		code
				dr	T.BRUNGARD	11/19/99	METRAL		213		
				engr	M.STRAWSE	11/19/99	size		sheet		
				chr	M.STRAWSE	11/19/99	scale		8		
				appd	M.STRAWSE	02/29/00	1:1		89025		
sheet	revision										
index	sheet										

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