



PRODUCT NUMBER
89025-XYX
89025-XYXLF

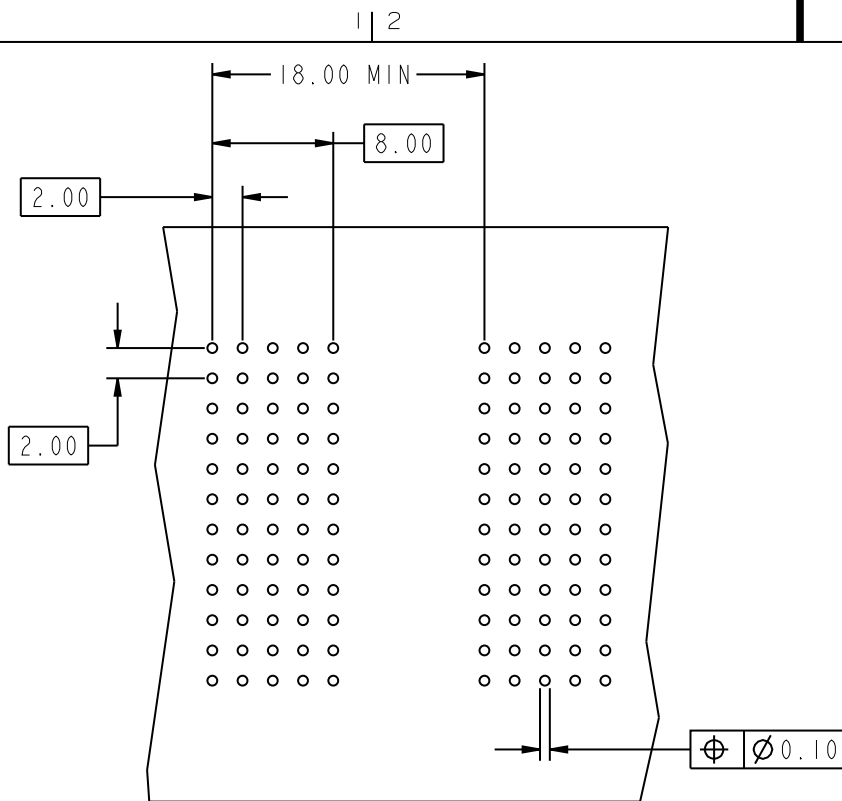


mat'l code				--		tolerances unless otherwise specified				CUSTOMER				www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3				COPY			title					
CP	V06-0573	DCH	2006-06-14		0.XX ±0.13				projection			METRAL SIGNAL HEADER					
CR	DG09-0256	TER	2009-08-19		.XXX ±.051							1 MOD, 5 ROW PRESS-FIT					
-	-	-	-	angles	0° ±2°						product family		METRAL		code		
CK	V03-0031	TAB	02/08/03	dr	T.BRUNGARD 11/19/99				scale		A	size		dwg no		213	
CL	V03-1321	DAI	01/15/04	enrg	M.STRAWSER 11/19/99				2:1							sheet	
CM	V04-0459	LP	5/25/04	chr	M.STRAWSER 11/19/99										1 of 8		
CN	V05-0030	DAI	02/10/05	appd	M.STRAWSER 02/29/00												
sheet		revision		CR	CR	CR	CR	CR	CR	CR							
index		sheet		1	2	3	4	5	6	7	8						



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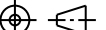
REV E - 2006-04-10



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					
lfr	ecn no.	dr	date	linear	0.X ± 0.3		projection	COPY		title	METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT				
CR					0.XX ± 0.13										
					.XXX $\pm .051$										
				angles	0° $\pm 2^\circ$			scale	1:1	product family	METRAL		code		
					dr	T.BRUNGARD					11/19/99	size	dwg no	89025	213
					enrg	M.STRAWSE					11/19/99				
				chr	M.STRAWSE	11/19/99									
				appd	M.STRAWSE	02/29/00							sheet		
													2		
sheet		revision													
index		sheet													

Pro/E

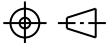
PDM: Rev:CR

STATUS: Released

Printed: Sep 16, 2009



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METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X01 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10
		D	10	10	10	10	10	10
		C	9	9	9	9	9	9
		B	10	10	10	10	10	10
		A	3	3	3	3	3	3
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X05 SEE NOTE 10 LEAD FREE OPTION		E	26	12	12	12	12	23
		D	26	12	12	12	12	23
		C	23	12	12	12	12	23
		B	24	12	12	12	12	23
		A	24	12	12	12	12	23
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X09 SEE NOTE 10 LEAD FREE OPTION		E	21	21	11	11	11	11
		D	21	21	11	11	11	11
		C	21	21	11	11	11	11
		B	21	21	11	11	11	11
		A	21	21	11	11	11	11
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X13 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10
		D	9	9	9	9	9	9
		C	10	10	10	10	10	10
		B	10	10	10	10	10	10
		A	2	2	2	2	2	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X17 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	2	2	2
		D	2	2	2	2	2	2
		C	4	4	4	4	4	4
		B	2	2	2	2	2	1
		A	2	2	2	2	2	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X02 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	3	3	2
		D	2	2	2	3	2	2
		C	2	1	2	3	3	2
		B	2	2	2	3	2	2
		A	2	2	2	3	3	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X06 SEE NOTE 10 LEAD FREE OPTION		E	25	25	25	25	25	25
		D	25	25	25	25	25	25
		C	25	25	25	25	25	25
		B	25	25	25	25	25	25
		A	25	25	25	25	25	25
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X10 SEE NOTE 10 LEAD FREE OPTION		E	3	19	3	3	19	3
		D	19	3	3	19	3	3
		C	3	1	19	3	3	19
		B	3	19	3	3	19	3
		A	3	3	3	19	3	3
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X14 SEE NOTE 10 LEAD FREE OPTION		E	25	25	25	25	25	25
		D	25	25	25	25	25	25
		C	25	25	25	25	25	25
		B	25	25	25	25	25	25
		A	2	2	2	2	2	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X18 SEE NOTE 10 LEAD FREE OPTION		E	6	6	6	6	6	6
		D	6	6	6	6	6	6
		C	8	8	8	8	8	8
		B	6	6	6	6	6	5
		A	6	6	6	6	6	6
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X03 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	3	2	2
		D	2	2	2	3	2	2
		C	2	1	2	3	2	2
		B	2	2	2	3	2	2
		A	2	2	2	3	2	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X07 SEE NOTE 10 LEAD FREE OPTION		E	2	2	2	2	2	2
		D	6	6	6	6	6	6
		C	6	6	6	6	6	6
		B	6	6	6	6	6	6
		A	6	6	6	6	6	6
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X11 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10
		D	10	10	10	10	10	10
		C	10	10	10	10	10	10
		B	10	10	10	10	10	10
		A	2	2	2	2	2	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X15 SEE NOTE 10 LEAD FREE OPTION		E	3	3	19	19	3	3
		D	3	3	19	19	3	3
		C	3	3	19	19	3	3
		B	3	3	19	19	3	3
		A	3	3	19	19	3	3
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X19 SEE NOTE 10 LEAD FREE OPTION		E	19	19	19	1	1	1
		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-X04 SEE NOTE 10 LEAD FREE OPTION		E	12	25	23	23	23	25
		D	12	25	23	23	23	25
		C	12	25	23	23	23	25
		B	12	25	23	23	23	25
		A	12	25	23	23	23	25
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X08 SEE NOTE 10 LEAD FREE OPTION		E	4	2	19	19	19	2
		D	4	2	19	19	19	2
		C	4	2	19	19	19	2
		B	4	2	19	19	19	2
		A	4	2	19	19	19	2
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X12 SEE NOTE 10 LEAD FREE OPTION		E	10	10	10	10	10	10
		D	9	9	9	9	9	9
		C	10	10	10	10	10	10
		B	10	10	10	10	10	10
		A	3	3	3	3	3	3
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X16 SEE NOTE 10 LEAD FREE OPTION		E	3	3	19	19	3	4
		D	3	3	19	19	3	4
		C	3	3	19	19	3	4
		B	3	3	19	19	3	4
		A	3	3	19	19	3	4
METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
89025-X20 SEE NOTE 10 LEAD FREE OPTION		E	1	4	4	4	4	19
		D	1	4	4	4	4	19
		C	19	4	4	4	4	19
		B	3	4	4	4	4	19
		A	3	4	4	4	4	19

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fcconnect.com			
lfr	ecn no.	dr	date	linear	0.X ±0.3		COPY			title			
CR					0.XX ±0.13		projection			METRAL SIGNAL HEADER			
					.XXX ±.051		scale			1 MOD, 5 ROW PRESS-FIT			
				angles	0° ±2°		dr			product family			
					T.BRUNGARD 11/19/99		size			METRAL			
					M.STRAWSER 11/19/99		dwg no			code			
					M.STRAWSER 11/19/99		A			213			
					M.STRAWSER 02/29/00		1:1		89025		sheet		
sheet index		revision sheet										3	

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com		
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title	METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT	
CR					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±2°	MM	scale	product family	METRAL	
				dr	T.BRUNGARD					11/19/99
				enrg	M.STRAWSE					11/19/99
				chr	M.STRAWSE	11/19/99	A	size	dwg no	
				appd	M.STRAWSE	02/29/00				
sheet	revision							89025	code	
index	sheet									213
								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	1			
	D	40	40	40	40	40	40		D	3	3	3	3	3	3		D	1	1	1	1	1	1		1	D	40	40	40	40	40		40	D	1	1	1	1	1	1	1		
	C	25	25	25	25	25	25		C	3	3	3	3	3	3		C	25	25	25	25	25	25		25	C	1	1	1	1	1		1	1	1	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		25	B	1	1	1	1	1		1	1	1	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	1	A	1	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-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	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	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	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	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	49	49			
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-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	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	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	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	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	44	44		
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-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	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	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	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	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	15		

mat'l code

- -

tolerances unless otherwise specified

lfr

ecn no.

dr

date

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

MM

scale

1:1

www.fciconnect.com

title

METRAL SIGNAL HEADER

1 MOD, 5 ROW PRESS-FIT

product family

METRAL

code

213

size

dwg no

89025

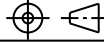
sheet

4

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



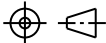
1 2											3											4																	
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I									
89025-X41 SEE NOTE 10 LEAD FREE OPTION	E	1	-	-	1	-	1	89025-X45 SEE NOTE 10 LEAD FREE OPTION	E	1	3	3	3	3	3	89025-X49 SEE NOTE 10 LEAD FREE OPTION	E	1	1	-	1	1	-	89025-X53 SEE NOTE 10 LEAD FREE OPTION	E	7	5	5	5	5	89025-X57 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4		
	D	1	-	-	1	-	1		D	3	3	3	3	3	D		1	1	-	1	1	-	D		7	5	5	5	5	D		13	4	4	4	4			
	C	1	-	-	1	-	1		C	3	3	3	3	3	C		-	-	-	-	-	-	C		7	5	5	5	5	C		13	4	4	4	4			
	B	1	-	-	1	-	1		B	3	3	3	3	3	B		1	1	-	1	1	-	B		7	5	5	5	5	B		4	4	4	4	4			
	A	1	-	-	1	-	1		A	3	3	3	3	3	A		1	1	-	1	1	-	A		7	5	5	5	5	A		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	89025-X54 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	89025-X58 SEE NOTE 10 LEAD FREE OPTION	E	2	0	7	7	7	
	D	4	4	4	4	4	4		D	1	9	1	9	1	9	1		D	1	1	9	1	9	1		D	2	2	2	2	2		D	2	0	7	7	7	
	C	4	4	4	4	4	4		C	1	9	1	9	1	9	1		C	1	1	9	1	9	1		C	2	2	2	2	2		C	2	0	7	7	7	
	B	1	9	1	9	1	9		1	B	1	9	1	9	1	9		1	B	1	1	9	1	9		1	B	2	2	2	2		2	B	2	0	7	7	7
	A	1	9	1	9	1	9		1	A	1	9	1	9	1	9		1	A	1	1	9	1	9		1	A	2	2	2	2		2	A	2	0	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-X43 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	9	1	9	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	89025-X59 SEE NOTE 10 LEAD FREE OPTION	E	1	9	3	3	3		
	D	1	9	1	9	1	9		D	2	2	2	2	4	4		D	-	-	-	-	-	-		D	1	1	9	1	9		1	D	1	9	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	C	1	9	3	3	3	
	B	4	4	4	4	4	4		B	2	2	2	2	1	9		9	B	-	-	-	-	-		-	B	1	1	9	1		9	1	B	1	9	3	3	3
	A	4	4	4	4	4	4		A	2	2	2	2	1	9		9	A	-	2	-	2	-		2	A	1	1	9	1		9	1	A	1	9	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	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	89025-X60 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	9	1	-	
	D	2	0	2	0	2	0		D	3	-	3	-	3	-		D	3	3	3	3	3	1		D	7	7	4	4	7		7	D	1	9	1	9	1	-
	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	-	
	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	-
	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	-

mat'l code				- -				tolerances unless otherwise specified				CUSTOMER		 www.fciconnect.com					
lfr	ecn no.	dr	date	linear	0. X ±0.3				COPY			title		product family				code	
CR					0. XX ±0.13				projection			METRAL SIGNAL HEADER		size		dwg no		213	
					.XXX ±.051				MM			I MOD, 5 ROW PRESS-FIT		A		89025		sheet	
					angles	0° ±2°				scale		1:1						5	
				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																		

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° ±°								
				angles									
				dr	T.BRUNGARD	11/19/99			MM		product family METRAL		
				enrg	M.STRAWSE	11/19/99			scale		code 213		
				chr	M.STRAWSE	11/19/99			1:1		sheet 5		
				appd	M.STRAWSE	02/29/00							
sheet index	revision sheet												



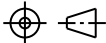
1 2						3						4																										
METRAL P/N	ROW	CONTACT CODE MOD. I					METRAL P/N	ROW	CONTACT CODE MOD. I					METRAL P/N	ROW	CONTACT CODE MOD. I					METRAL P/N	ROW	CONTACT CODE MOD. I															
89025-X61 SEE NOTE 10 LEAD FREE OPTION	E	1	19	3	3	3	89025-X65 SEE NOTE 10 LEAD FREE OPTION	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
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
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
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

mat'l code				--				tolerances unless otherwise specified				CUSTOMER		 www.fciconnect.com			
lfr	ecn no.	dr	date	linear	0. x ± 0.3				COPY			title					
CR					0. xx ± 0.13				projection			METRAL SIGNAL HEADER					
					. xxx $\pm .051$							1 MOD, 5 ROW PRESS-FIT					
					0° $\pm 2^\circ$												
				angles									product family				
				dr	T.BRUNGARD 11/19/99						size		METRAL		code		
				engr	M.STRAWSER 11/19/99						scale		dwg no		213		
				chr	M.STRAWSER 11/19/99						A		89025		sheet		
				appd	M.STRAWSER 02/29/00										6		
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		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	product family		METRAL	code	213
				enrg	M.STRAWSE	11/19/99	size		dwg no	89025	sheet	6	
				chr	M.STRAWSE	11/19/99	scale		A				
				appd	M.STRAWSE	02/29/00	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-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	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		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	1	4		A	2	3	2	2	4	4		A	3	3	3	-	-	3	
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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

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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		
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT		
CR					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±2°	 MM 1:1	product family METRAL	code 213	sheet 8	
				dr	T.BRUNGARD					11/19/99
				enrg	M.STRAWSER					11/19/99
				chr	M.STRAWSER	11/19/99	size A	dwg no 89025		
				appd	M.STRAWSER	02/29/00				
sheet index	revision sheet									

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