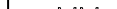




PRODUCT NUMBER
89025-XYX
89025-XYXLF



mat'l code				--		tolerances unless otherwise specified				CUSTOMER				www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3				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				MM		size	dwg no	213		
CL	V03-1321	DAI	01/15/04	enrg	M.STRAWSER 11/19/99				scale				sheet		
CM	V04-0459	LP	5/25/04	chr	M.STRAWSER 11/19/99				2:1		A	89025	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	CR					
index		sheet	1	2	3	4	5	6	7	8					

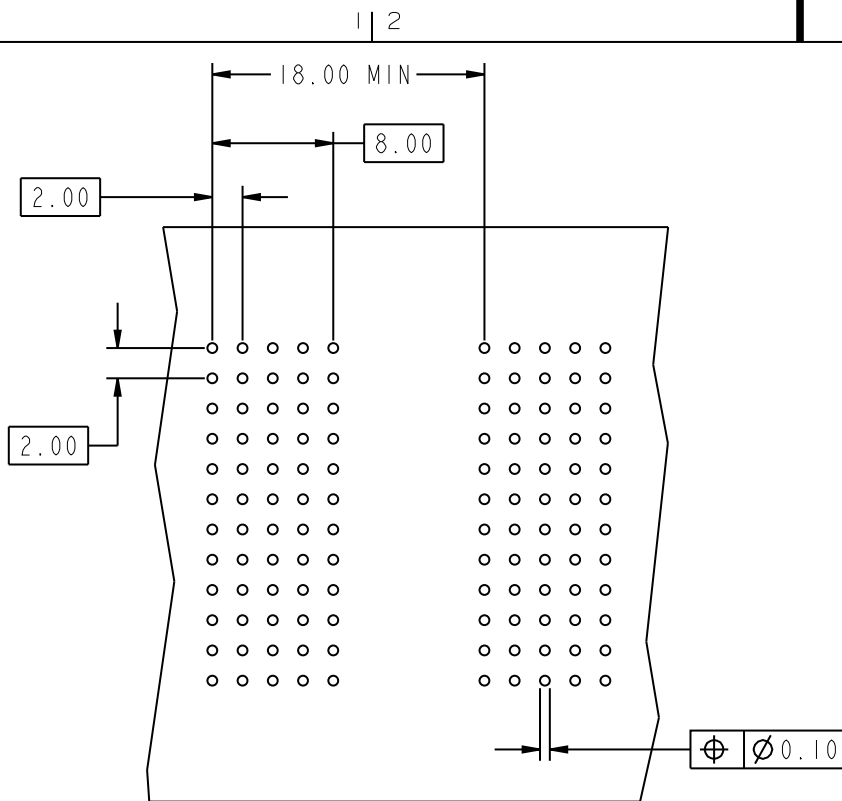
cage code 22526

Pro/E



This document is the property of and embodies
CONFIDENTIAL and PROPRIETARY information of FCI.
No part of the information shown on this
document may be used in any way or disclosed
to others without the written consent of FCI.
Copyright FCI.

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 $\pm$ 0.3		projection	COPY	title	METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT				
CR					0.XX $\pm$ 0.13									
					.XXX $\pm$.051									
				angles	0° $\pm$ 2°				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	scale	1:1	A					
sheet	revision													
index	sheet													

Pro/E

cage code 22526

PDM: Rev:CR

STATUS: Released

Printed: Sep 16, 2009



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-X01		E	10	10	10	10	10	10	89025-X05		E	26	12	12	12	12	23	89025-X09		E	21	21	11	11	11	11	89025-X13		E	10	10	10	10	10	10	89025-X17		E	2	2	2	2	2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
SEE NOTE 10 LEAD FREE OPTION		D	10	10	10	10	10	10	SEE NOTE 10 LEAD FREE OPTION		D	26	12	12	12	12	23	SEE NOTE 10 LEAD FREE OPTION		D	21	21	11	11	11	11	SEE NOTE 10 LEAD FREE OPTION		D	9	9	9	9	9	9	SEE NOTE 10 LEAD FREE OPTION		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					METRAL P/N		ROW	CONTACT CODE MOD. I					METRAL P/N		ROW	CONTACT CODE MOD. I																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
89025-X02		E	2	2	2	3	3	2	89025-X06		E	25	25	25	25	25	25	89025-X10		E	3	19	3	3	19	3	89025-X14		E	25	25	25	25	25	25	89025-X18		E	6	6	6	6	6	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
SEE NOTE 10 LEAD FREE OPTION		D	2	2	2	3	2	2	SEE NOTE 10 LEAD FREE OPTION		D	25	25	25	25	25	25	SEE NOTE 10 LEAD FREE OPTION		D	19	3	3	19	3	3	SEE NOTE 10 LEAD FREE OPTION		D	25	25	25	25	25	25	SEE NOTE 10 LEAD FREE OPTION		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					METRAL P/N		ROW	CONTACT CODE MOD. I					METRAL P/N		ROW	CONTACT CODE MOD. I																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
89025-X03		E	2	2	2	3	2	2	89025-X07		E	2	2	2	2	2	2	89025-X11		E	10	10	10	10	10	10	89025-X15		E	3	3	19	19	3	3	89025-X19		E	19	19	19	1	1	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
SEE NOTE 10 LEAD FREE OPTION		D	2	2	2	3	2	2	SEE NOTE 10 LEAD FREE OPTION		D	6	6	6	6	6	6	SEE NOTE 10 LEAD FREE OPTION		D	10	10	10	10	10	10	SEE NOTE 10 LEAD FREE OPTION		D	3	3	19	19	3	3	SEE NOTE 10 LEAD FREE OPTION		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					METRAL P/N		ROW	CONTACT CODE MOD. I					METRAL P/N		ROW	CONTACT CODE MOD. I																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
89025-X04		E	12	25	23	23	23	25	89025-X08		E	4	2	19	19	19	2	89025-X12		E	10	10	10	10	10	10	89025-X16		E	3	3	19	19	3	4	89025-X20		E	1	4	4	4	4	19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
SEE NOTE 10 LEAD FREE OPTION		D	12	25	23	23	23	25	SEE NOTE 10 LEAD FREE OPTION		D	4	2	19	19	19	2	SEE NOTE 10 LEAD FREE OPTION		D	9	9	9	9	9	9	SEE NOTE 10 LEAD FREE OPTION		D	3	3	19	19	3	4	SEE NOTE 10 LEAD FREE OPTION		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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcconnect.com		COPY		projection		title		product family		METRAL		code		213		sheet		3		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025		A		89025	

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection		title	METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT
CR					0.XX ±0.13				
					.XXX ±.051				
				angles	0° ±2°		product family	METRAL	code
				dr	T.BRUNGARD 11/19/99				
				enrg	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	scale	A	size	dwg no
				appd	M.STRAWSE 02/29/00				
sheet	revision								
index	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-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	4	A	1	1	1	1		1	1	1	1	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-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	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	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	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	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

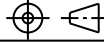
4

A

mat'l code				--				tolerances unless otherwise specified				CUSTOMER				FCJ			
lfr	ecn no.	dr	date	linear	0.X ±0.3				COPY				www.fcjconnect.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																		
			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-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	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	3	4	4	4	4			4	D	13	4	4	4	4			4										
		C	1	-	-	1	-	1			C	3	3	3	3	3	3			C	1	3	4	4	4	4			4	C	13	4	4	4	4			4										
		B	1	-	-	1	-	1			B	3	3	3	3	3	3			B	4	4	4	4	4	4			4	B	4	4	4	4	4			4										
		A	1	-	-	1	-	1			A	3	3	3	3	3	3			A	1	3	13	13	13	13			13	A	13	13	13	13	13			13										
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
		D	4	4	4	4	4	4			D	1	9	1	9	1	9	1			D	2	0	7	7	7	7	7	D			2	0	7	7	7	7	7										
		C	4	4	4	4	4	4			C	1	9	1	9	1	9	1			C	2	0	7	7	7	7	7	C			2	0	7	7	7	7	7										
		B	1	9	1	9	1	9			1	B	1	9	1	9	1	9			1	B	2	0	7	7	7	7	7			B	2	0	7	7	7	7			7							
		A	1	9	1	9	1	9			1	A	1	9	1	9	1	9			1	A	2	0	7	7	7	7	7			A	2	0	7	7	7	7			7							
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	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			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	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	1	1	9	1	9	1			9	1	A	1	9	3	3	3			3	3							
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	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	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	7			A	1	9	1	9	1	9	-		

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

mat'l code

lfr

ecn no.

dr

date

linear

angles

dr

engr

chr

appd

tolerances unless otherwise specified

0. X ±0.3

0. XX ±0.13

.XXX ±.051

0° ±2°

T.BRUNGARD 11/19/99

M.STRAWSER 11/19/99

M.STRAWSER 11/19/99

M.STRAWSER 02/29/00

CUSTOMER

COPY

projection

scale

FCJ

www.fcconnect.com

title

product family

size

dwg no

code

213

sheet

6

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

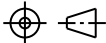
99

100

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		METRAL	code
				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						6		
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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CR					0.XX ±0.13				projection					METRAL SIGNAL HEADER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					.XXX ±.051				scale					I MOD, 5 ROW PRESS-FIT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					0° ±2°				1:1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				dr	T.BRUNGARD 11/19/99								product family				code																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				engr	M.STRAWSER 11/19/99								size				213																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				chr	M.STRAWSER 11/19/99								A				89025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				appd	M.STRAWSER 02/29/00												sheet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
sheet index		revision sheet																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</

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



This document is the property of and embodies
CONFIDENTIAL and PROPRIETARY information of FCI.
No part of the information shown on this
document may be used in any way or disclosed
to others without the written consent of FCI.
Copyright FCI.

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.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		
				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										

cage code 22526