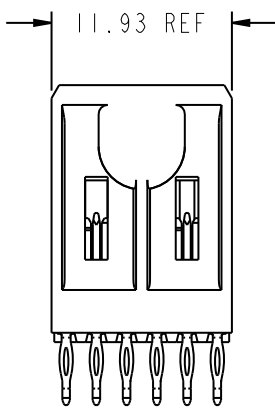
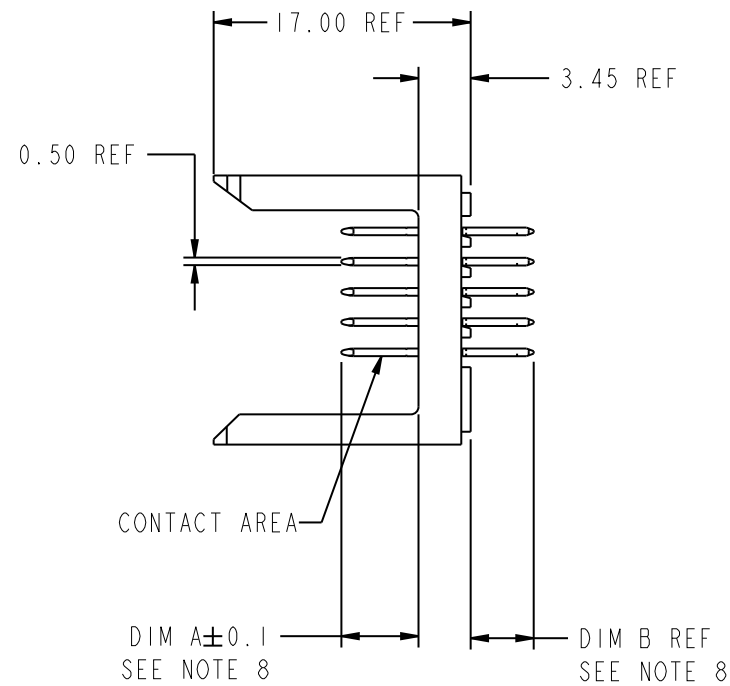
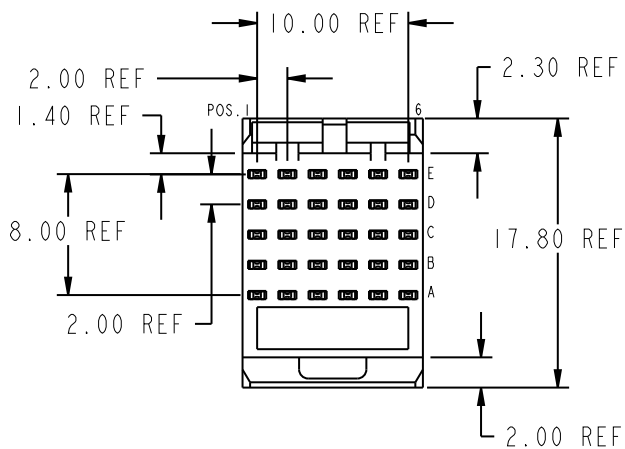
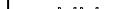




PRODUCT NUMBER
89025-XYX
89025-XYXLF



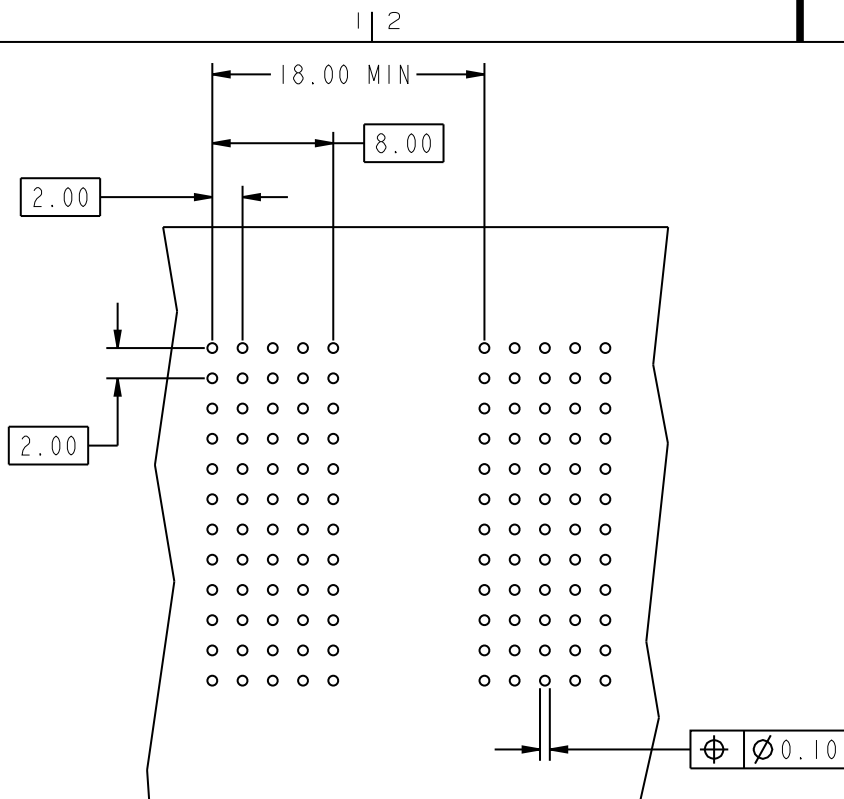
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lfr	ecn no.	dr	date	linear	0.X ±0.3				COPY			title			
CP	V06-0573	DCH	2006-06-14		0.XX ±0.13				projection			METRAL SIGNAL HEADER			
CR	DG09-0256	TER	2009-08-19		.XXX ±.051				1 MOD, 5 ROW PRESS-FIT						
-	-	-	-	angles	0° ±2°						product family		METRAL		code
CK	V03-0031	TAB	02/08/03	dr	T.BRUNGARD 11/19/99				scale	A	size	dwg no	213		
CL	V03-1321	DAI	01/15/04	enrg	M.STRAWSER 11/19/99								sheet		
CM	V04-0459	LP	5/25/04	chr	M.STRAWSER 11/19/99				2:1						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	CR	CR	CR	CR
index		sheet		1	2	3	4	5	6	7	8				

cage code 22526



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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		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 scale 1:1	A	product family METRAL size 89025 code 213 sheet 2	
				dr	T.BRUNGARD 11/19/99				
				enrg	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	cage code	22526	4	
				appd	M.STRAWSE 02/29/00				
sheet index	revision sheet								

Pro/E

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																								
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	D	10	10	10	10	10		D	26	12	12	12	12		D	21	21	11	11	11		D	9	9	9	9	9		D	2	2	2	2	2													
	C	9	9	9	9	9		C	23	12	12	12	12		C	21	21	11	11	11		C	10	10	10	10	10		C	4	4	4	4	4													
	B	10	10	10	10	10		B	24	12	12	12	12		B	21	21	11	11	11		B	10	10	10	10	10		B	2	2	2	2	2													
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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																								
		1	2	3	4	5			6	1	2	3	4			5	6	1	2	3			4	5	6	1	2	3	4	5	6																
		E	2	2	2	3			3	2	89025-X06 SEE NOTE 10 LEAD FREE OPTION	E	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	89025-X18 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6			
		D	2	2	2	3			2	D		25	25			25	25	25	D				19	3	3	19	3	3	D		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				C	3	1	19	3	3	19		C	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	B	3	19	3	3	19		3	B	25	25	25	25	25	B	6		6	6	6	6	5												
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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																								
		1	2	3	4	5			6	1	2	3	4			5	6	1	2	3			4	5	6	1	2	3	4	5	6																
		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	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	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	3	19	19	3	3		B	3	3	3	3	3	3									
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		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	
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mat'l code

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tolerances unless
otherwise specified

linear

0. X ±0.3

0. XX ±0.13

.XXX ±.051

angles

0° ±2°

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

FCJ

www.fcconnect.com

title

METRAL SIGNAL HEADER

1 MOD, 5 ROW PRESS-FIT

product family

METRAL

code

213

size

A

dwg no

89025

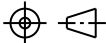
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mat'l code				tolerances unless otherwise specified				CUSTOMER		FCJ www.fcjconnect.com			
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CR					0.XX ±0.13			projection					
					.XXX ±.051								
					0° ±2°								
				angles	dr	T.BRUNGARD	11/19/99	MM		product family METRAL code			
					enrg	M.STRAWSE	11/19/99	scale		size dwg no 213			
					chr	M.STRAWSE	11/19/99	1:1		sheet 3			
					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-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	11	11	11	11	11	11			
		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	D	11	11	11	11	11	11	
		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	C	11	11	11	11	11	11
		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	B	11	11	11	11	11	11
		A	3	3	3	3	3	3			A	3	3	3	3	3			3	A	4	4	4	4			4	4	A	1	1	1	1			1	1	1	A	11	11	11	11	11	11
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		
		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		
		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		
		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		
		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		
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	11	11	11	11	11	11	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	11	11	11	11	11			D	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			C	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			B	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			A	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		
		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			D	12	12	12	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			C	12	12	12	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			B	12	12	12	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			A	12	12	12	15	15	15		

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			1 MOD, 5 ROW PRESS-FIT				
					0° ±2°			1:1							
				dr	T.BRUNGARD	11/19/99						product family	METRAL		code
				engr	M.STRAWSER	11/19/99						size	dwg no		213
				chr	M.STRAWSER	11/19/99									sheet
				appd	M.STRAWSER	02/29/00									4
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	
CR					0.XX ±0.13					1 MOD, 5 ROW PRESS-FIT			
					.XXX ±.051								
					0° ±2°								
				angles									
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				enrg	M.STRAWSE	11/19/99					size		dwg no
				chr	M.STRAWSE	11/19/99					A		89025
				appd	M.STRAWSE	02/29/00					sheet		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														
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	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	4							
	C	1	-	-	1	-	1		C	3	3	3	3	3	C		-	-	-	-	-	-	C		7	5	5	5	5	C	13		4	4	4	4	4							
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	D	4	4	4	4	4	4		D	1	9	1	9	1	4	4	4		D	1	1	9	1	9	1	9	1		D	2	0	7	7	7	7		7							
	C	4	4	4	4	4	4		C	1	9	1	9	1	4	4	4		C	1	1	9	1	9	1	9	1		C	2	0	7	7	7	7		7							
	B	1	9	1	9	1	9		1	B	1	9	1	9	1	4	4		4	B	1	1	9	1	9	1	9		1	B	2	0	7	7	7		7	7						
	A	1	9	1	9	1	9		1	A	1	9	1	9	1	4	4		4	A	1	1	9	1	9	1	9		1	A	2	0	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-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	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			
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CR					0.XX ±0.13								
					.XXX ±.051								
					0° ±2°								
				angles	dr	T.BRUNGARD	11/19/99	MM 	product family		METRAL	code	
				enrg	M.STRAWER	11/19/99	size		dwg no	213	sheet		
				chr	M.STRAWER	11/19/99	A		89025	5			
				appd	M.STRAWER	02/29/00	scale		1:1				
sheet index	revision sheet												



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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	D		13	3	4	4	4	D	2		-	2	-	2	-	D		54	54	39	54	54	54		
	C	1	-	1	-	1		C	3	1	1	1	1	C		13	3	4	4	4	C	-		2	-	2	-	2	C		54	54	39	54	54	54		
	B	-	1	-	1	-		B	3	1	1	1	1	B		13	3	4	4	4	B	2		-	2	-	2	-	B		54	54	39	54	54	54		
	A	1	-	1	-	1		A	3	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	29	89025-X67 SEE NOTE 10 LEAD FREE OPTION	E	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	29		D	5	5	20	20	20		D	20	20	20	8	8	D		54	54	54	54	39	54	D		1	1	1	1	1	1		
	C	8	27	29	29	29		C	5	5	20	20	20		C	20	20	20	8	8	C		54	54	54	54	39	54	C		2	2	2	2	1	1		
	B	8	27	29	29	29		B	5	5	20	20	20		B	20	20	20	8	8	B		54	54	54	54	39	54	B		1	1	1	1	1	1		
	A	8	27	29	29	29		A	5	5	20	20	20		A	20	20	20	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	89025-X72 SEE NOTE 10 LEAD FREE OPTION	E	19	19	19	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		D	19	19	19	4	4		D	3	3	3	3	3	D		5	5	5	5	5	5			
	C	-	-	-	-	-		C	9	9	21	21	21		C	19	19	19	4	4		C	3	3	3	3	3	C		6	6	6	6	5	5			
	B	45	-	45	-	45		B	9	9	21	21	21		B	19	19	19	4	4		B	3	3	3	3	3	B		5	5	5	5	5	5			
	A	45	-	45	-	45		A	9	9	21	21	21		A	19	19	19	4	4		A	3	3	3	3	3	A		5	5	5	5	5	5			

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

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				angles	.XXX ±.051			METRAL SIGNAL HEADER	
				dr	T.BRUNGARD 11/19/99			1 MOD, 5 ROW PRESS-FIT	
				enrg	M.STRAWSE 11/19/99	product family		METRAL	
				chr	M.STRAWSE 11/19/99	size		dwg no	
				appd	M.STRAWSE 02/29/00	A		89025	
sheet index	revision	sheet				scale		213	
						1:1		sheet 6	
						cage code		22526	



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

mat'l code

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angles

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enrg

chr

appd

0.X ±0.3

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T.BRUNGARD 11/19/99

M.STRAWSER 11/19/99

M.STRAWSER 11/19/99

M.STRAWSER 02/29/00

CUSTOMER

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projection

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FCJ

www.fcconnect.com

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product family

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MOD.

5 ROW PRESS-FIT

sheet index

revision sheet

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lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CR				angles	0.XX ±0.13					METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT	
					.XXX ±.051					product family	
				dr	0° ±2°			scale		METRAL	
				enr	T.BRUNGARD 11/19/99			1:1		code	
				chr	M.STRAWSE 11/19/99					213	
				appd	M.STRAWSE 02/29/00					sheet	
sheet	revision									7	
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



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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	COPY		title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT	
CR					0.XX ±0.13	projection			
					.XXX ±.051				
				angles	0° ±2°				
				dr	T.BRUNGARD	11/19/99	MM		product family
				enrg	M.STRAWSER	11/19/99			METRAL
				chr	M.STRAWSER	11/19/99	scale		code
				appd	M.STRAWSER	02/29/00	1:1		213
sheet	revision						A		sheet
index	sheet								8

cage code 22526

Pro/E