
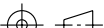
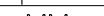


REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

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
11	6.50	17.00
12	7.25	17.00
13	8.25	4.30
14	8.25	13.60
19	8.00	4.30
20	8.00	13.60
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

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0. X ±0.3		projection 	title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT			
CC					0. XX ±0.13						
					. XXX ±.051						
				angles	0° ±2°		 scale 2:1	product family METRAL	size A	dwg no 89073	code 213 sheet 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										



METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X01 SEE NOTE 11 LEAD FREE OPTION	D	-	-	-	3	3
	C	-	-	-	3	3
	B	-	-	-	3	3
	A	-	-	-	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X02 SEE NOTE 11 LEAD FREE OPTION	D	3	3	19	3	3
	C	3	3	3	3	3
	B	3	3	3	3	3
	A	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X03 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3
	C	3	3	3	3	3
	B	3	3	3	3	3
	A	3	3	3	19	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X04 SEE NOTE 11 LEAD FREE OPTION	D	19	3	3	3	3
	C	3	3	3	3	3
	B	3	3	3	3	3
	A	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X05 SEE NOTE 11 LEAD FREE OPTION	D	3	-	3	-	3
	C	3	-	4	-	2
	B	3	-	3	-	3
	A	3	-	3	-	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X06 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3
	C	3	3	3	3	3
	B	3	3	3	3	4
	A	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X07 SEE NOTE 11 LEAD FREE OPTION	D	1	-	1	-	1
	C	-	1	-	1	-
	B	1	-	1	-	1
	A	-	1	-	1	-

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X08 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	3	2
	C	1	1	1	3	2
	B	1	1	1	3	2
	A	1	1	1	3	2

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X09 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	7
	C	6	6	6	6	7
	B	6	6	6	6	7
	A	6	6	6	6	7

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1
	C	1	1	1	1	1
	B	3	3	1	1	1
	A	3	3	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X11 SEE NOTE 11 LEAD FREE OPTION	D	22	22	22	22	22
	C	22	22	22	22	22
	B	22	22	22	22	22
	A	22	22	22	22	22

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X12 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	-
	C	3	3	3	3	-
	B	3	3	3	3	-
	A	3	3	3	3	-

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X13 SEE NOTE 11 LEAD FREE OPTION	D	-	-	3	3	3
	C	-	-	3	3	3
	B	-	-	3	3	3
	A	-	-	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X14 SEE NOTE 11 LEAD FREE OPTION	D	-	1	-	1	-
	C	1	-	1	-	1
	B	-	1	-	1	-
	A	1	-	1	-	1

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X15 SEE NOTE 11 LEAD FREE OPTION	D	19	2	4	4	4
	C	19	3	4	4	4
	B	19	3	4	4	4
	A	19	3	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X16 SEE NOTE 11 LEAD FREE OPTION	D	4	3	3	4	3
	C	4	3	3	4	3
	B	4	3	3	4	3
	A	4	3	3	4	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X17 SEE NOTE 11 LEAD FREE OPTION	D	2	1	1	1	1
	C	2	1	1	1	1
	B	2	3	3	1	1
	A	2	3	3	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X18 SEE NOTE 11 LEAD FREE OPTION	D	1	-	1	-	1
	C	-	2	-	1	-
	B	1	-	2	-	3
	A	-	1	-	1	-

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X19 SEE NOTE 11 LEAD FREE OPTION	D	1	2	2	1	1
	C	1	2	2	1	1
	B	1	1	1	1	1
	A	3	3	3	3	1

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X20 SEE NOTE 11 LEAD FREE OPTION	D	19	19	1	1	1
	C	19	19	1	1	1
	B	19	19	1	1	1
	A	19	19	1	1	1

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title	METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT
CC					0.XX ±0.13				
					.XXX ±.051				
				angles	0° ±2°		MM	product family	METRAL
				dr	T.BRUNGARD 11/19/99				
				engr	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	scale	1:1	size	A
				appd	M.STRAWSE 02/29/00				
sheet	revision							cage code	22526
index	sheet								



METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X21 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5
	C	7	7	7	7	7
	B	5	5	5	5	5
	A	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X22 SEE NOTE 11 LEAD FREE OPTION	D	4	3	4	2	3
	C	4	3	4	2	3
	B	4	3	4	2	3
	A	4	3	4	1	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X23 SEE NOTE 11 LEAD FREE OPTION	D	3	1	1	1	1
	C	3	1	1	1	1
	B	3	1	1	1	1
	A	3	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X24 SEE NOTE 11 LEAD FREE OPTION	D	1	9	3	3	3
	C	1	9	3	3	3
	B	1	9	3	3	3
	A	1	9	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X25 SEE NOTE 11 LEAD FREE OPTION	D	1	9	3	3	3
	C	1	9	3	3	3
	B	1	9	3	3	3
	A	1	9	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X26 SEE NOTE 11 LEAD FREE OPTION	D	3	1	1	1	3
	C	3	1	1	1	3
	B	3	1	1	1	3
	A	3	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X27 SEE NOTE 11 LEAD FREE OPTION	D	1	9	3	4	3
	C	1	9	3	4	3
	B	1	9	3	4	3
	A	1	9	3	4	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X28 SEE NOTE 11 LEAD FREE OPTION	D	1	9	3	1	9
	C	1	9	3	1	9
	B	1	9	3	1	9
	A	1	9	3	1	9

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X29 SEE NOTE 11 LEAD FREE OPTION	D	2	3	3	3	3
	C	2	3	3	3	3
	B	2	3	3	3	3
	A	2	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X30 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3
	C	3	3	3	3	3
	B	3	3	3	3	3
	A	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X31 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	8
	C	7	7	7	7	8
	B	7	7	7	7	8
	A	7	7	7	7	8

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X32 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	7
	C	8	8	8	8	7
	B	8	8	8	8	7
	A	8	8	8	8	7

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X33 SEE NOTE 11 LEAD FREE OPTION	D	1	9	3	1	9
	C	1	9	3	1	9
	B	1	9	3	1	9
	A	1	9	3	1	9

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X34 SEE NOTE 11 LEAD FREE OPTION	D	3	2	2	2	2
	C	3	2	2	2	2
	B	3	2	2	2	2
	A	3	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X35 SEE NOTE 11 LEAD FREE OPTION	D	3	3	-	3	3
	C	-	-	-	-	-
	B	-	-	-	-	-
	A	3	3	-	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X36 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3
	C	3	3	3	3	3
	B	3	3	3	3	3
	A	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X37 SEE NOTE 11 LEAD FREE OPTION	D	8	7	7	8	7
	C	8	7	7	8	7
	B	8	7	7	8	7
	A	8	7	7	8	7

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X38 SEE NOTE 11 LEAD FREE OPTION	D	3	4	2	2	2
	C	3	4	2	2	2
	B	3	4	2	2	2
	A	3	4	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X39 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	1	9
	C	3	3	3	3	3
	B	3	3	3	3	3
	A	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X40 SEE NOTE 11 LEAD FREE OPTION	D	3	4	4	3	2
	C	3	4	4	3	2
	B	3	4	4	3	2
	A	3	4	4	3	2

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT		
CC					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°	MM		product family METRAL	code 213		
				dr	T.BRUNGARD 11/19/99	scale				size A	sheet 4
				enrg	M.STRAWSE 11/19/99	1:1					
				chr	M.STRAWSE 11/19/99						
				appd	M.STRAWSE 02/29/00						
sheet index	revision sheet										



METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X41 SEE NOTE 11 LEAD FREE OPTION	D	4	4	2	3	3	3
	C	2	2	4	2	4	4
	B	2	2	4	4	2	2
	A	2	2	4	2	4	4
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X42 SEE NOTE 11 LEAD FREE OPTION	D	1	4	1	1	1	1
	C	1	4	1	1	1	1
	B	1	4	1	1	1	1
	A	1	4	1	1	1	1
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X43 SEE NOTE 11 LEAD FREE OPTION	D	14	14	14	14	14	14
	C	14	20	14	20	14	20
	B	20	20	20	20	20	20
	A	14	14	14	14	14	14
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X44 SEE NOTE 11 LEAD FREE OPTION	D	13	13	13	13	13	13
	C	13	19	13	19	13	19
	B	19	19	19	19	19	19
	A	13	13	13	13	13	13
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X45 SEE NOTE 11 LEAD FREE OPTION	D	1	1	-	-	1	1
	C	1	1	-	-	1	1
	B	1	1	-	-	1	1
	A	1	1	-	-	1	1
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X46 SEE NOTE 11 LEAD FREE OPTION	D	20	7	7	7	7	7
	C	20	7	7	7	7	7
	B	20	7	7	7	7	7
	A	20	7	7	7	7	7
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X47 SEE NOTE 11 LEAD FREE OPTION	D	20	7	7	7	7	5
	C	20	7	7	7	7	5
	B	20	7	7	7	7	6
	A	20	7	7	7	7	7
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X48 SEE NOTE 11 LEAD FREE OPTION	D	5	5	20	5	5	5
	C	5	5	20	5	5	5
	B	5	5	20	5	5	5
	A	5	5	20	5	5	5
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X49 SEE NOTE 11 LEAD FREE OPTION	D	2	2	4	4	2	19
	C	2	2	4	4	2	19
	B	2	2	4	4	2	19
	A	2	2	4	4	2	19
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X50 SEE NOTE 11 LEAD FREE OPTION	D	7	7	6	6	6	6
	C	7	7	6	6	6	6
	B	7	7	6	6	6	6
	A	7	7	6	6	6	6
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X51 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	6	8
	C	7	7	7	7	6	8
	B	7	7	7	7	6	8
	A	7	7	7	7	6	8
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X52 SEE NOTE 11 LEAD FREE OPTION	D	8	7	7	7	7	8
	C	8	7	7	7	7	8
	B	8	7	7	7	7	8
	A	8	7	7	7	7	8
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X53 SEE NOTE 11 LEAD FREE OPTION	D	2	2	4	3	3	4
	C	2	2	4	3	3	4
	B	2	2	4	3	3	4
	A	2	2	4	3	3	2
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X54 SEE NOTE 11 LEAD FREE OPTION	D	2	2	4	3	3	4
	C	2	2	4	3	3	4
	B	2	2	4	3	3	4
	A	2	2	4	3	3	4
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X55 SEE NOTE 11 LEAD FREE OPTION	D	2	3	3	3	4	4
	C	2	3	3	3	4	4
	B	2	3	3	3	4	4
	A	1	3	3	3	4	4
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X56 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	2	4	4
	C	3	3	3	2	4	4
	B	3	3	3	2	4	4
	A	3	3	3	2	4	4
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X57 SEE NOTE 11 LEAD FREE OPTION	D	2	3	1	1	1	1
	C	2	3	1	1	1	1
	B	2	3	1	1	1	1
	A	2	3	1	1	1	1
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X58 SEE NOTE 11 LEAD FREE OPTION	D	5	6	8	5	5	7
	C	5	6	8	5	5	7
	B	5	5	5	5	5	5
	A	5	5	5	5	5	5
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X59 SEE NOTE 11 LEAD FREE OPTION	D	7	6	8	7	7	7
	C	7	6	8	7	7	7
	B	7	7	7	7	7	7
	A	7	7	7	7	7	7
METRAL P/N		CONTACT CODE MOD. I					
		ROW	1	2	3	4	5
89073-X60 SEE NOTE 11 LEAD FREE OPTION	D	4	2	2	4	2	2
	C	4	2	2	4	2	2
	B	4	2	2	4	2	2
	A	4	2	2	4	2	2

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi	
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		www.fciconnect.com	
CC				angles	0.XX ±0.13	projection		title	
					.XXX ±.051			METRAL SIGNAL HEADER	
					0° ±2°			1 MOD, 4 ROW PRESS-FIT	
				dr	T.BRUNGARD 11/19/99	MM		product family	
				engr	M.STRAWSE 11/19/99	A		METRAL	
				chr	M.STRAWSE 11/19/99	scale		code	
				appd	M.STRAWSE 02/29/00	1:1		213	
sheet index		revision sheet						sheet	
								5	



METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X61 SEE NOTE 11 LEAD FREE OPTION	D	4	4	2	2	3	3
	C	2	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X62 SEE NOTE 11 LEAD FREE OPTION	D	7	8	6	8	7	7
	C	7	8	6	8	7	7
	B	7	8	6	8	7	7
	A	7	8	6	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X63 SEE NOTE 11 LEAD FREE OPTION	D	1	2	2	1	2	2
	C	1	2	2	1	2	2
	B	1	2	2	1	2	2
	A	1	2	2	1	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X64 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	1	3	3
	C	3	3	3	1	3	3
	B	3	3	3	1	3	3
	A	3	3	3	1	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X65 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4
	C	4	4	4	4	4	4
	B	4	4	4	4	4	2
	A	4	4	4	4	4	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X66 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4
	C	4	4	4	4	4	2
	B	4	4	4	4	4	2
	A	4	4	4	4	4	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X67 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	3	3
	C	4	4	4	4	3	3
	B	4	4	4	4	3	3
	A	4	4	4	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X68 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	2
	C	4	4	4	4	4	2
	B	4	4	4	4	4	2
	A	4	4	4	4	4	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X69 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	3	3
	C	2	2	2	2	3	3
	B	2	2	2	2	3	3
	A	2	2	2	2	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X70 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4
	C	19	19	19	19	19	19
	B	4	4	4	4	4	4
	A	19	19	19	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X71 SEE NOTE 11 LEAD FREE OPTION	D	2	3	3	2	4	2
	C	2	3	3	2	4	2
	B	2	3	3	2	4	2
	A	2	3	3	2	4	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X72 SEE NOTE 11 LEAD FREE OPTION	D	4	2	2	2	2	4
	C	4	2	2	2	2	4
	B	4	2	2	2	2	4
	A	4	2	2	2	2	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X73 SEE NOTE 11 LEAD FREE OPTION	D	1	-	1	-	1	-
	C	-	1	-	1	-	1
	B	1	-	1	-	1	-
	A	-	1	-	1	-	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X74 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	4	4	4	3	3	3
	B	4	3	4	3	3	3
	A	4	4	4	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X75 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11
	C	12	12	12	11	11	11
	B	12	11	12	11	11	11
	A	12	12	12	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X76 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	2	3
	C	2	1	1	1	2	2
	B	2	1	1	1	2	2
	A	2	1	1	1	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X77 SEE NOTE 11 LEAD FREE OPTION	D	1	3	2	3	2	3
	C	1	3	2	3	2	3
	B	1	3	2	3	2	3
	A	1	3	2	3	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X78 SEE NOTE 11 LEAD FREE OPTION	D	2	2	3	2	2	2
	C	2	2	3	2	2	2
	B	2	2	3	2	2	2
	A	2	2	3	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X79 SEE NOTE 11 LEAD FREE OPTION	D	2	3	2	3	2	3
	C	2	3	2	3	2	3
	B	2	3	2	3	2	3
	A	2	3	2	3	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		I	2	3	4	5	6
89073-X80 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	2	2	2	4
	A	2	2	2	2	2	2

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com		
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT	
CC					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±2°			product family METRAL	code 213	
				dr	T.BRUNGARD	11/19/99				size A
				engr	M.STRAWSE	11/19/99				
				chr	M.STRAWSE	11/19/99				
				appd	M.STRAWSE	02/29/00	scale 1:1	dwg no 89073	sheet 6	
sheet index	revision sheet									



METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X81 SEE NOTE 11 LEAD FREE OPTION	D	2	4	2	2	4	2
	C	2	4	2	2	4	2
	B	2	4	2	2	4	2
	A	2	4	2	2	4	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X82 SEE NOTE 11 LEAD FREE OPTION	D	2	2	4	4	4	4
	C	2	2	4	2	2	4
	B	2	2	4	2	2	4
	A	2	2	4	2	2	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X83 SEE NOTE 11 LEAD FREE OPTION	D	3	3	4	4	3	3
	C	3	3	4	4	3	3
	B	3	3	4	4	3	3
	A	3	3	4	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X84 SEE NOTE 11 LEAD FREE OPTION	D	I	-	I	-	I	-
	C	I	I	-	I	-	I
	B	I	-	I	-	I	-
	A	I	I	-	I	-	I

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X85 SEE NOTE 11 LEAD FREE OPTION	D	I	I	I	3	3	3
	C	19	19	19	19	19	19
	B	19	19	19	19	19	19
	A	19	19	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X86 SEE NOTE 11 LEAD FREE OPTION	D	I	I	I	I	3	3
	C	I	I	I	I	I	I
	B	I	I	I	I	I	I
	A	I	I	I	I	I	I

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X87 SEE NOTE 11 LEAD FREE OPTION	D	2	-	2	2	2	-
	C	2	-	-	-	2	-
	B	-	-	-	-	2	-
	A	2	2	2	2	2	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X88 SEE NOTE 11 LEAD FREE OPTION	D	I	-	-	I	I	I
	C	-	-	-	I	I	I
	B	-	-	-	I	I	I
	A	I	-	-	I	I	I

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X89 SEE NOTE 11 LEAD FREE OPTION	D	3	3	2	2	2	2
	C	3	3	2	2	2	2
	B	3	3	2	2	2	2
	A	3	3	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X90 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	I	19
	C	3	3	3	3	2	19
	B	3	3	3	3	3	19
	A	3	3	3	3	3	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X91 SEE NOTE 11 LEAD FREE OPTION	D	19	3	3	3	3	3
	C	19	3	3	2	3	3
	B	19	3	3	3	3	3
	A	19	3	1	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X92 SEE NOTE 11 LEAD FREE OPTION	D	19	2	3	3	3	3
	C	19	3	3	3	3	3
	B	19	3	3	3	3	3
	A	19	3	1	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X93 SEE NOTE 11 LEAD FREE OPTION	D	26	23	25	23	12	12
	C	23	23	25	23	12	12
	B	24	23	25	23	12	12
	A	23	23	25	23	12	12

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X94 SEE NOTE 11 LEAD FREE OPTION	D	I	I	I	I	I	I
	C	I	I	I	I	I	I
	B	3	3	3	3	I	I
	A	3	3	3	3	I	I

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X95 SEE NOTE 11 LEAD FREE OPTION	D	I	-	I	-	I	I
	C	-	I	-	I	-	I
	B	I	-	I	-	I	I
	A	-	I	-	I	-	I

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X96 SEE NOTE 11 LEAD FREE OPTION	D	2	-	2	-	2	2
	C	-	2	-	2	-	2
	B	2	-	2	-	2	2
	A	-	2	-	2	-	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X97 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6
	C	6	6	6	6	6	6
	B	6	6	6	6	6	8
	A	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X98 SEE NOTE 11 LEAD FREE OPTION	D	6	7	7	6	8	8
	C	6	7	7	6	8	8
	B	6	7	7	6	8	8
	A	6	7	7	6	8	8

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X99 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	4	4	4	2	4	2
	B	4	3	4	2	4	2
	A	3	4	4	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X100 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	2	4
	C	4	4	4	4	2	4
	B	4	4	4	4	2	4
	A	4	4	4	4	2	4

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ	
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		www.fciconnect.com	
CC				angles	0.XX ±0.13	projection	title		METRAL SIGNAL HEADER
					.XXX ±.051		1 MOD, 4 ROW PRESS-FIT		
					0° ±2°				
				dr	T.BRUNGARD	11/19/99	product family		METRAL
				engr	M.STRAWSE	11/19/99	size	dwg no	213
				chr	M.STRAWSE	11/19/99		A	7
				appd	M.STRAWSE	02/29/00			
sheet	revision								
index	sheet								



METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X101 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
	C	2	1	2	2	2	2
	B	2	2	2	2	2	2
	A	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X102 SEE NOTE 11 LEAD FREE OPTION	D	6	8	8	6	20	20
	C	6	8	8	6	20	20
	B	6	8	8	6	20	20
	A	6	8	8	6	20	20

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X103 SEE NOTE 11 LEAD FREE OPTION	D	2	4	4	2	19	19
	C	2	4	4	2	19	19
	B	2	4	4	2	19	19
	A	2	4	4	2	19	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X104 SEE NOTE 11 LEAD FREE OPTION	D	8	6	6	6	6	6
	C	8	6	6	6	6	6
	B	8	6	6	6	6	6
	A	8	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X105 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	1	2	2
	C	2	2	2	4	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X106 SEE NOTE 11 LEAD FREE OPTION	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	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X107 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	4	2	2
	C	2	2	2	4	2	2
	B	2	2	2	4	2	2
	A	2	2	2	4	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X108 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	3	2
	C	2	2	2	2	3	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X109 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	3	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X110 SEE NOTE 11 LEAD FREE OPTION	D	2	3	3	2	4	4
	C	2	3	3	2	4	4
	B	2	3	3	2	4	4
	A	2	3	3	2	4	4

3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X111 SEE NOTE 11 LEAD FREE OPTION	D	2	2	4	4	2	2
	C	2	2	4	4	2	2
	B	2	2	4	4	2	2
	A	2	2	4	4	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X112 SEE NOTE 11 LEAD FREE OPTION	D	4	2	3	2	2	3
	C	4	2	3	2	2	3
	B	4	3	2	-	2	3
	A	4	3	1	-	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X113 SEE NOTE 11 LEAD FREE OPTION	D	3	4	2	2	3	3
	C	3	4	2	2	3	3
	B	3	4	2	2	3	3
	A	3	4	2	2	-	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X114 SEE NOTE 11 LEAD FREE OPTION	D	6	6	8	6	6	6
	C	6	6	8	6	6	6
	B	6	6	8	6	6	6
	A	6	6	8	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X115 SEE NOTE 11 LEAD FREE OPTION	D	8	6	6	6	6	8
	C	8	6	6	6	6	8
	B	8	6	6	6	6	8
	A	8	6	6	6	6	8

4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X116 SEE NOTE 11 LEAD FREE OPTION	D	-	6	7	7	6	-
	C	-	6	7	7	6	-
	B	-	6	7	7	6	-
	A	-	6	7	7	6	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X117 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	3	3	3	19	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
89073-X118 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	3	2	2
	C	2	2	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
89073-X119 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	2	2	2
	C	3	3	3	2	2	2
	B	3	3	3	2	2	2
	A	3	3	3	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X120 SEE NOTE 11 LEAD FREE OPTION	D	6	6	5	5	7	6
	C	6	6	6	6	7	6
	B	6	6	6	6	7	6
	A	6	6	6	6	7	6

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ± 0.3	projection	COPY	title	METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT	
CC					0.XX ± 0.13					
					0.XXX ± 0.051					
				angles	0° ± 2°			product family	METRAL	
				dr	T.BRUNGARD					11/19/99
				engr	M.STRAWSE					11/19/99
				chr	M.STRAWSE	11/19/99	size	dwg no	213	
				appd	M.STRAWSE	02/29/00				
sheet		revision				scale		A		
index		sheet						89073		
								8		

2

Pro/E

3

cage code 22526

4



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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X121 SEE NOTE 11 LEAD FREE OPTION	D	3	3	4	3	4	2
	C	3	3	4	3	4	2
	B	3	3	4	3	4	2
	A	3	3	4	3	4	2



METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X122 SEE NOTE 11 LEAD FREE OPTION	D	4	4	2	4	2	2
	C	2	2	2	4	4	4
	B	4	4	2	4	2	2
	A	2	2	2	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X123 SEE NOTE 11 LEAD FREE OPTION	D	2	3	2	2	2	2
	C	2	3	2	2	2	2
	B	2	3	2	2	2	2
	A	2	3	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X124 SEE NOTE 11 LEAD FREE OPTION	D	2	3	2	3	2	2
	C	2	3	2	3	2	2
	B	2	3	2	3	2	2
	A	2	3	2	3	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X125 SEE NOTE 11 LEAD FREE OPTION	D	4	3	3	3	3	4
	C	4	3	3	3	3	4
	B	4	3	3	3	3	4
	A	4	3	3	3	3	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X126 SEE NOTE 11 LEAD FREE OPTION	D	4	2	2	2	2	2
	C	4	2	2	2	2	2
	B	4	2	2	2	2	4
	A	4	2	2	2	2	2

mat'l code				tolerances unless otherwise specified		CUSTOMER		<div>FCi</div> <div>www.fciconnect.com</div>						
ltr	ecn no.	dr	date	linear	0.X ±0.3		projection 	titleMETRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT						
CC					0.XX ±0.13									
					.XXX ±.051									
				angles	0° ±2°		 MM scale 1:1	product family				METRAL		code
				dr	T.BRUNGARD	11/19/99		size	dwg no		213			
				enrg	M.STRAWSE	11/19/99								
				chr	M.STRAWSE	11/19/99								
				appd	M.STRAWSE	02/29/00			89073		sheet 9			
sheet index	revision sheet													



PRODUCT NUMBER
89073-XYX OR 89073-XYXX
89073-XYXLF OR 89073-XYXXLF

# NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:  
55422 -XYX IS SnPb  
55422-XYXLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE  
LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN  
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.  
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"  
WILL BE ADDED TO THE END OF THE PART NUMBER.  
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXXP,  
XXXXX-XXXPLF OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH  
QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT  
AREA (LEAD FREE).
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE  
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS  
AS DESCRIBED IN GS-22-008.  
  
ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING  
(DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE  
TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR  
VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1---  
AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT  
SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR  
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 89073-X0ILF

## PLATING IN CONTACT AREA

DASH NUMBER	PERFORMANCE LEVEL	NOTES
-AYY OR -AYYY	TELCORDIA CO	SEE NOTE 9
-NIYY OR -NIYYY	TELCORDIA CO (NXT)	-
-N5YY OR N5YYY	TELCORDIA UE (NXT)	-
-IYY OR -IYYY	TELCORDIA CO	-
-2YY OR -2YYY	TELECOM CLASS	-
-3YY OR -3YYY	IEC CLASS I	-
-5YY OR -5YYY	TELCORDIA UE	-
-9YY OR -9YYY	TELCORDIA CO	-
-AYXLF OR -AYXXLF	TELCORDIA CO	SEE NOTE 10
-NIYXLF OR -NIYXXLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5YXLF OR N5YXXLF	TELCORDIA UE (NXT)	SEE NOTE 10
-IYXLF OR -IYXXLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2YXLF OR -2YXXLF	TELECOM CLASS	SEE NOTE 10
-5YXLF OR -5YXXLF	TELCORDIA UE	SEE NOTE 10

mat'l code				tolerances unless otherwise specified		CUSTOMER		<div>FCi</div> <div>www.fciconnect.com</div>				
lfr	ecn no.	dr	date	linear	0. X ±0.3		COPY		<div>titleMETRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT</div>			
CC					0. XX ±0.13		projection					
					.XXX ±.051		<div></div>					
				angles	0° ±2°		<div></div>		product family		METRAL	code
				dr	T.BRUNGARD	11/19/99	scale		size	dwg no	213	
				enrg	M.STRAWER	11/19/99			A	89073	sheet	
				chr	M.STRAWER	11/19/99	10					
				appd	M.STRAWER	02/29/00						
sheet index	revision sheet											