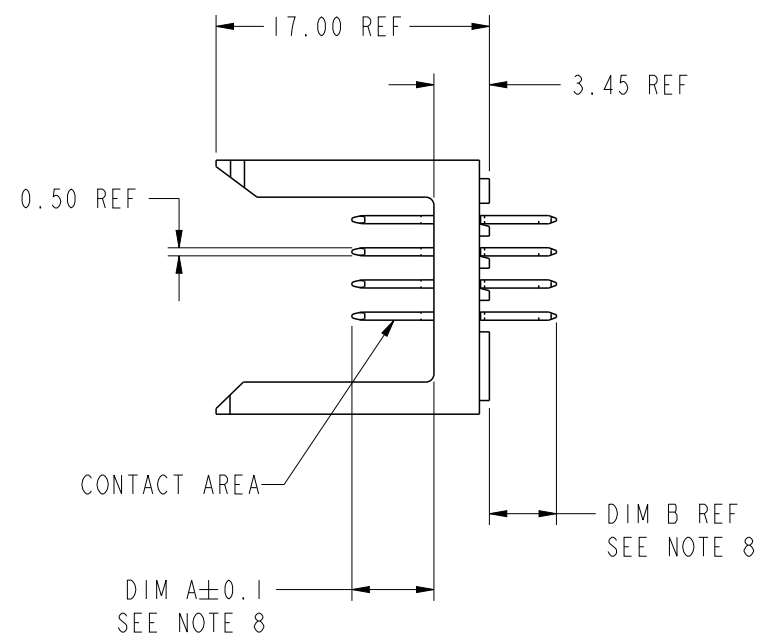
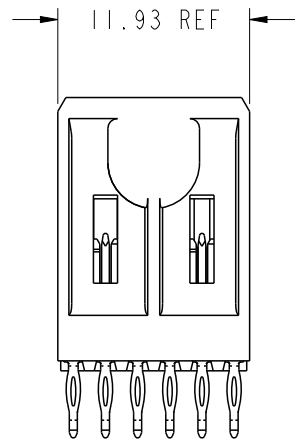
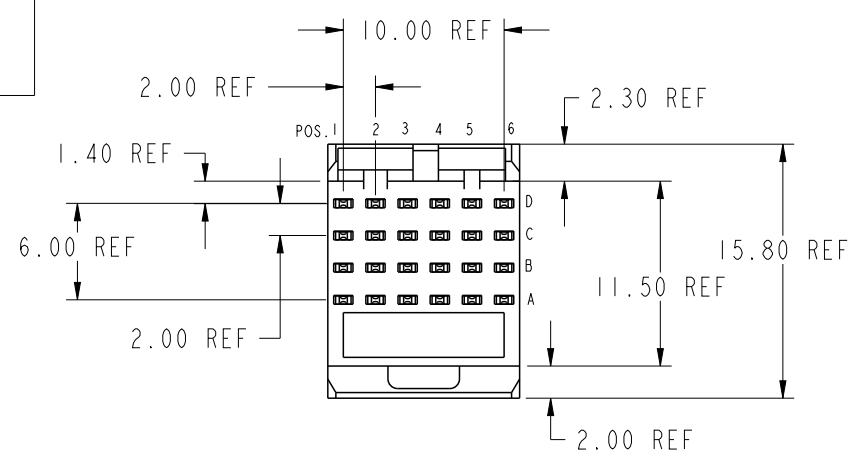




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PRODUCT NUMBER
89073-XXX OR 89073-XXXX
89073-XXYLF OR 89073-XXYYLF

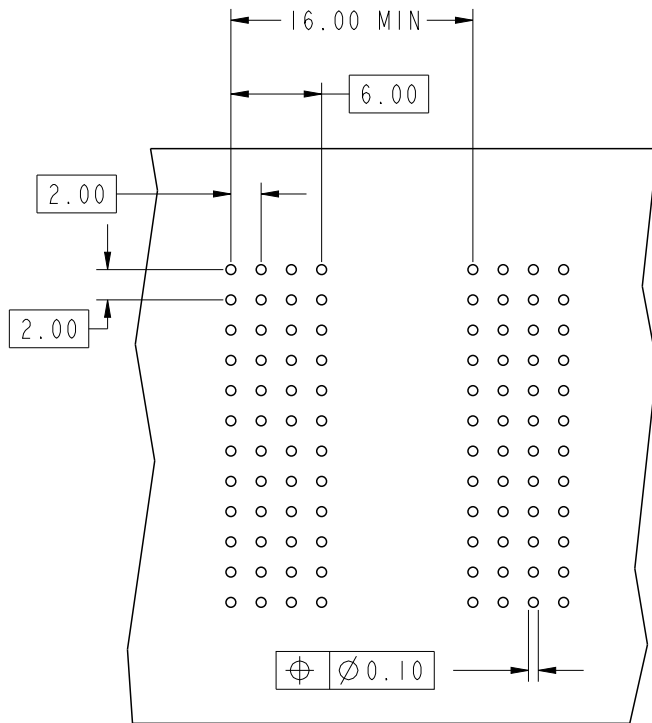


spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terran Huang	2011/08/11			ecn no	ELX-DG-004963-1		
		chr	-	-			rel level	Released		
		appr	Pei-Ming Zheng	2011/08/11	product family	METRAL				
surface	3.200 linear				title	METRAL SIGNAL HEADER	dwg no	89073	rev	CE
						I MOD, 4 ROW PRESS-FIT				
	angular	0°	±2°		cat. no.	-	Product - Customer Drw	sheet 1 of 10		

Print File - REV C - 2009-06-09



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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

spec ref *				dr		Terran Huang		2010/07/08		projection		mm		size		A4		scale		2:1																																																													
tolerance std				TOLERANCES UNLESS OTHERWISE SPECIFIED				eng		Terran Huang		2011/08/11						ecn no				ELX-DG-004963-1																																																											
								chr		-		-																																																																					
								appr		Pei-Ming Zheng		2011/08/11																																																																					
										product family										METRAL										rel level										Released																																									
surface 3.200 linear				0.X ±0.3 0.XX ±0.13 0.XXX ±.051								title										METRAL SIGNAL HEADER										1 MOD, 4 ROW PRESS-FIT										dwg no										89073										rev										CR									
angular				0° ±2°				www.fci.com				cat. no.										-										Product - Customer Drw										sheet 2 of 10																																							

PrintE File - REV C - 2009-06-09

PDS: Rev :CE

STATUS:Released

Printed: Aug 11, 2011



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D

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
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	6
89073-X02 SEE NOTE 11 LEAD FREE OPTION	D	3	3	19	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X03 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	3	19	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X04 SEE NOTE 11 LEAD FREE OPTION	D	19	3	3	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
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	6
89073-X06 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	4	1
	A	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X07 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					
		1	2	3	4	5	6
89073-X08 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	3	2	2
	C	1	1	1	3	2	2
	B	1	1	1	3	2	2
	A	1	1	1	3	2	2

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

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1
	C	1	1	1	1	1	1
	B	3	3	1	1	1	1
	A	3	3	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X11 SEE NOTE 11 LEAD FREE OPTION	D	22	22	22	22	22	22
	C	22	22	22	22	22	22
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
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	6
89073-X13 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	6
89073-X14 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					
		1	2	3	4	5	6
89073-X15 SEE NOTE 11 LEAD FREE OPTION	D	19	2	4	4	4	19
	C	19	3	4	4	4	4
	B	19	3	4	4	4	4
	A	19	3	1	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X16 SEE NOTE 11 LEAD FREE OPTION	D	4	3	3	4	3	3
	C	4	3	3	4	3	3
	B	4	3	3	4	3	3
	A	4	3	3	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X17 SEE NOTE 11 LEAD FREE OPTION	D	2	1	1	1	1	1
	C	2	1	1	1	1	1
	B	2	3	3	1	1	1
	A	2	3	3	1	1	1

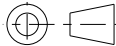
METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X18 SEE NOTE 11 LEAD FREE OPTION	D	1	-	1	-	1	-
	C	-	2	-	1	-	3
	B	1	-	2	-	3	-
	A	-	1	-	1	-	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X19 SEE NOTE 11 LEAD FREE OPTION	D	1	2	2	1	1	1
	C	1	2	2	1	1	1
	B	1	1	1	1	1	1
	A	3	3	3	3	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X20 SEE NOTE 11 LEAD FREE OPTION	D	19	19	1	1	1	1
	C	19	19	1	1	1	1
	B	19	19	1	1	1	1
	A	19	19	1	1	1	1

spec ref	*
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED
surface	3.200 linear
	angular

dr	Terran Huang	2010/07/08
eng	Terran Huang	2011/08/11
chr	-	-
appr	Pei-Ming Zheng	2011/08/11
FCI		
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projection 	mm 	size A4	scale 1:1
		ecn no ELX-DG-004963-1	
product family METRAL		rel level Released	
NAL HEADER		dwg no 89073	rev CE
RESS-FIT	Product - Customer Drw		sheet 3 of 10



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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X21 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5
	C	7	7	7	7	7	7
	B	5	5	5	5	5	5
	A	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X22 SEE NOTE 11 LEAD FREE OPTION	D	4	3	4	2	2	3
	C	4	3	4	2	2	3
	B	4	3	4	2	2	3
	A	4	3	4	1	4	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X23 SEE NOTE 11 LEAD FREE OPTION	D	3	1	1	1	1	1
	C	3	1	1	1	1	1
	B	3	1	1	1	1	1
	A	3	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X24 SEE NOTE 11 LEAD FREE OPTION	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					
		1	2	3	4	5	6
89073-X25 SEE NOTE 11 LEAD FREE OPTION	D	19	3	3	3	3	19
	C	19	3	3	3	3	3
	B	19	3	3	3	3	3
	A	19	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X26 SEE NOTE 11 LEAD FREE OPTION	D	3	1	1	1	1	3
	C	3	1	1	1	1	3
	B	3	1	1	1	1	3
	A	3	1	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X27 SEE NOTE 11 LEAD FREE OPTION	D	19	3	4	4	3	3
	C	19	3	4	4	3	3
	B	19	3	4	4	3	3
	A	19	3	4	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X28 SEE NOTE 11 LEAD FREE OPTION	D	19	3	19	19	3	3
	C	19	3	19	19	3	3
	B	19	3	19	19	3	3
	A	19	3	19	19	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X29 SEE NOTE 11 LEAD FREE OPTION	D	2	3	3	3	3	19
	C	2	3	3	3	3	19
	B	2	3	3	3	3	19
	A	2	3	3	3	3	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X30 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	4
	C	3	3	3	3	3	4
	B	3	3	3	3	3	4
	A	3	3	3	3	3	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X31 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	8
	C	7	7	7	7	7	8
	B	7	7	7	7	7	8
	A	7	7	7	7	7	8

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X32 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	7	7
	C	8	8	8	8	7	7
	B	8	8	8	8	7	7
	A	8	8	8	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X33 SEE NOTE 11 LEAD FREE OPTION	D	19	3	19	19	4	4
	C	19	3	19	19	4	4
	B	19	3	19	19	4	4
	A	19	3	19	19	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X34 SEE NOTE 11 LEAD FREE OPTION	D	3	2	2	2	2	2
	C	3	2	2	2	2	2
	B	3	2	2	2	1	2
	A	3	2	2	2	3	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
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	6
89073-X36 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3
	C	3	3	4	3	2	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-X37 SEE NOTE 11 LEAD FREE OPTION	D	8	7	7	8	7	7
	C	8	7	7	8	7	7
	B	8	7	7	8	7	7
	A	8	7	7	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X38 SEE NOTE 11 LEAD FREE OPTION	D	3	4	2	2	2	2
	C	3	4	2	2	2	2
	B	3	4	2	2	2	2
	A	3	4	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X39 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	19	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	3	3	3

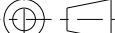
METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X40 SEE NOTE 11 LEAD FREE OPTION	D	3	4	4	3	2	2
	C	3	4	4	3	2	2
	B	3	4	4	3	2	2
	A	3	4	4	3	2	2

spec ref	*	dr	Terran Huang	2010/07/08	projection		size	A4	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terran Huang	2011/08/11			ecn no	ELX-DG-004963-1		
		chr	-	-			rel level	Released		
		appr	Pei-Ming Zheng	2011/08/11	product family	METRAL				
surface	3.200linear	0.X	±0.3		title	METRAL SIGNAL HEADER	dwg no	89073	rev	CE
		0.XX	±0.13							
		0.XXX	±.051							
	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 4 of 10		



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

spec ref *				dr Terran Huang2010/07/08		projection 	mm 	sizeA4	scale1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terran Huang2011/08/11				ecn noELX-DG-004963-1	
				chr - -					
				appr Pei-Ming Zheng2011/08/11		product familyMETRAL		rel levelReleased	
surface3.200linear	0.X	±0.3		titleMETRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT	dwg no89073	revCE			
							0.XX	±0.13	
							0.XXX	±.051	
	angular	0°					±2°	www.fci.com	cat. no.-



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

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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					
		1	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

spec ref	*	dr	Terran Huang	2010/07/08	projection		size	A4	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Terran Huang	2011/08/11			ecn no	ELX-DG-004963-1		
		chr	-	-			rel level	Released		
		appr	Pei-Ming Zheng	2011/08/11	product family	METRAL				
surface	3.200 linear	0.X	±0.3		title	METRAL SIGNAL HEADER	dwg no	89073	rev	CE
		0.XX	±0.13							
		0.XXX	±.051							
	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw		sheet 6 of 10	



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METRAL P/N		CONTACT CODE MOD. I						METRAL P/N		CONTACT CODE MOD. I						METRAL P/N		CONTACT CODE MOD. I						METRAL P/N		CONTACT CODE MOD. I									
		ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6
89073-X81 SEE NOTE 11 LEAD FREE OPTION		D	2	4	2	2	4	2	89073-X86 SEE NOTE 11 LEAD FREE OPTION		D	1	1	1	1	3	3	89073-X91 SEE NOTE 11 LEAD FREE OPTION		D	19	3	3	3	3	3	89073-X96 SEE NOTE 11 LEAD FREE OPTION		D	2	-	2	-	2	2
		C	2	4	2	2	4	2			C	1	1	1	1	1	C			19	3	3	2	3	3	C			-	2	-	2	-	2	
		B	2	4	2	2	4	2			B	1	1	1	1	1	B			19	3	3	3	3	3	B			2	-	2	-	2	2	
		A	2	4	2	2	4	2			A	1	1	1	1	1	A			19	3	1	3	3	3	A			-	2	-	2	-	2	
METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I					
		ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6
89073-X82 SEE NOTE 11 LEAD FREE OPTION		D	2	2	4	4	4	4	89073-X87 SEE NOTE 11 LEAD FREE OPTION		D	2	-	2	2	2	-	89073-X92 SEE NOTE 11 LEAD FREE OPTION		D	19	2	3	3	3	3	89073-X97 SEE NOTE 11 LEAD FREE OPTION		D	6	6	6	6	6	6
		C	2	2	4	2	2	4			C	2	-	-	-	2	-			C	19	3	3	3	3	3			C	6	6	6	6	6	6
		B	2	2	4	2	2	4			B	-	-	-	-	2	-			B	19	3	3	3	3	3			B	6	6	6	6	6	8
		A	2	2	4	2	2	4			A	2	2	2	2	2	-			A	19	3	1	3	3	3			A	6	6	6	6	6	6
METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I					
		ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6
89073-X83 SEE NOTE 11 LEAD FREE OPTION		D	3	3	4	4	3	3	89073-X88 SEE NOTE 11 LEAD FREE OPTION		D	1	-	-	1	1	1	89073-X93 SEE NOTE 11 LEAD FREE OPTION		D	26	23	25	23	12	12	89073-X98 SEE NOTE 11 LEAD FREE OPTION		D	6	7	7	6	8	8
		C	3	3	4	4	3	3			C	-	-	-	1	1	1			C	23	23	25	23	12	12			C	6	7	7	6	8	8
		B	3	3	4	4	3	3			B	-	-	-	1	1	1			B	24	23	25	23	12	12			B	6	7	7	6	8	8
		A	3	3	4	4	3	3			A	1	-	-	1	1	1			A	23	23	25	23	12	12			A	6	7	7	6	8	8
METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I					
		ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6
89073-X84 SEE NOTE 11 LEAD FREE OPTION		D	1	-	1	-	1	-	89073-X89 SEE NOTE 11 LEAD FREE OPTION		D	3	3	2	2	2	2	89073-X94 SEE NOTE 11 LEAD FREE OPTION		D	1	1	1	1	1	1	89073-X99 SEE NOTE 11 LEAD FREE OPTION		D	3	3	3	3	3	3
		C	1	1	-	1	-	1			C	3	3	2	2	2	2			C	1	1	1	1	1	1			C	4	4	4	2	4	2
		B	1	-	1	-	1	-			B	3	3	2	2	2	2			B	3	3	3	3	1	1			B	4	3	4	2	4	2
		A	1	1	-	1	-	1			A	3	3	2	2	2	2			A	3	3	3	3	1	1			A	3	4	4	3	3	3
METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I						METRAL P/N			CONTACT CODE MOD. I					
		ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6			ROW	1	2	3	4	5	6
89073-X85 SEE NOTE 11 LEAD FREE OPTION		D	1	1	1	3	3	3	89073-X90 SEE NOTE 11 LEAD FREE OPTION		D	3	3	3	3	1	19	89073-X95 SEE NOTE 11 LEAD FREE OPTION		D	1	-	1	-	1	1	89073-X100 SEE NOTE 11 LEAD FREE OPTION		D	4	4	4	4	2	4
		C	19	19	19	19	19	19			C	3	3	3	3	2	19			C	4	4	4	4	2	4			C	4	4	4	4	2	4
		B	19	19	19	19	19	19			B	3	3	3	3	3	19			B	4	4	4	4	2	4			B	4	4	4	4	2	4
		A	19	19	19	19	19	19			A	3	3	3	3	3	19			A	4	4	4	4	2	4			A	4	4	4	4	2	4

spec ref		*		dr		Terran Huang		2010/07/08		projection		mm		size		A4		scale		1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Terran Huang		2011/08/11						ecn no		ELX-DG-004963-1		rel level		Released	
surface		3.2		appr		Pei-Ming Zheng		2011/08/11		product family		METRAL		dwg no		89073		rev		CE	
linear		0.X		±0.3		FCI		title		METRAL SIGNAL HEADER		1 MOD, 4 ROW PRESS-FIT		cat. no.		-		Product - Customer Drw		sheet 7 of 10	
angular		0°		±2°		www.fci.com															



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

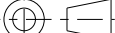
METRAL P/N	ROW	CONTACT CODE MOD. I				
		1	2	3	4	5
89073-X116 SEE NOTE 11 LEAD FREE OPTION	D	-	6	7	7	6
	C	-	6	7	7	6
	B	-	6	7	7	6
	A	-	6	7	7	6

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

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

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

spec ref *				dr Terran Huang2010/07/08		projection 	mm 	size A4	scale 1:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terran Huang2011/08/11				ecn no ELX-DG-004963-1		
				chr -				rel level Released		
				appr Pei-Ming Zheng2011/08/11				product family METRAL		
surface 3.200linear 	linear	0.X	±0.3		title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT			dwg no 89073	rev CE	
		0.XX	±0.13							
		0.XXX	±0.051							
	angular	0°	±2°							www.fci.com



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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

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X127 SEE NOTE 11 LEAD FREE OPTION	D	25	23	23	23	23	23
	C	23	23	23	23	23	23
	B	23	23	23	23	23	23
	A	23	23	23	23	23	23

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89073-X128 SEE NOTE 11 LEAD FREE OPTION	D	3	2	1	1	1	1
	C	3	2	1	1	1	1
	B	3	2	1	1	1	1
	A	3	2	1	1	1	1

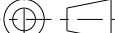


A

B

C

D

spec ref *				dr Terran Huang 2010/07/08		projection 	mm 	size A4	scale 1:1		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng Terran Huang 2011/08/11				ecn no ELX-DG-004963-1			
				chr - -				rel level Released			
				appr Pei-Ming Zheng 2011/08/11		product family METRAL					
surface 3.200 linear		0.X	±0.3		title	METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT		dwg no	89073		rev
		0.XX	±0.13								
		0.XXX	±0.051								
angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw			sheet 9 of 10		



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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 -XYLF 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.)-NI--- 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.)-NI---
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 -NIyy	TELCORDIA CO (NXT)	-
-N5yy OR N5yy	TELCORDIA UE (NXT)	-
-Iyy OR -Iyy	TELCORDIA CO	-
-2yy OR -2yy	TELECOM CLASS	-
-3yy OR -3yy	IEC CLASS I	-
-5yy OR -5yy	TELCORDIA UE	-
-9yy OR -9yy	TELCORDIA CO	-
-AYyLF OR -AYyLF	TELCORDIA CO	SEE NOTE 10
-NIyLF OR -NIyLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5yLF OR N5yLF	TELCORDIA UE (NXT)	SEE NOTE 10
-IyLF OR -IyLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2yLF OR -2yLF	TELECOM CLASS	SEE NOTE 10
-5yLF OR -5yLF	TELCORDIA UE	SEE NOTE 10

spec ref		*		dr	Terran Huang	2010/07/08	projection 	mm 	size	A4	scale	53:50		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Terran Huang	2011/08/11			ecn no	ELX-DG-004963-1				
				chr	-	-			rel level			Released		
				appr	Pei-Ming Zheng	2011/08/11	product family		METRAL					
surface	3.200 linear	0.X	±0.3		title	METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT				dwg no	89073		rev	CP
		0.XX	±0.13											
		0.XXX	±.051											
		angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw				sheet 10 of 10		