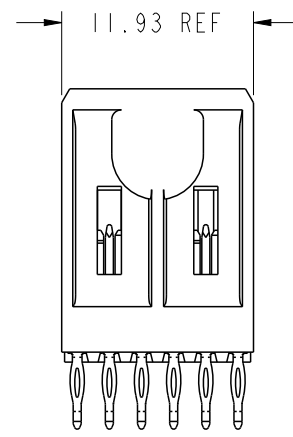
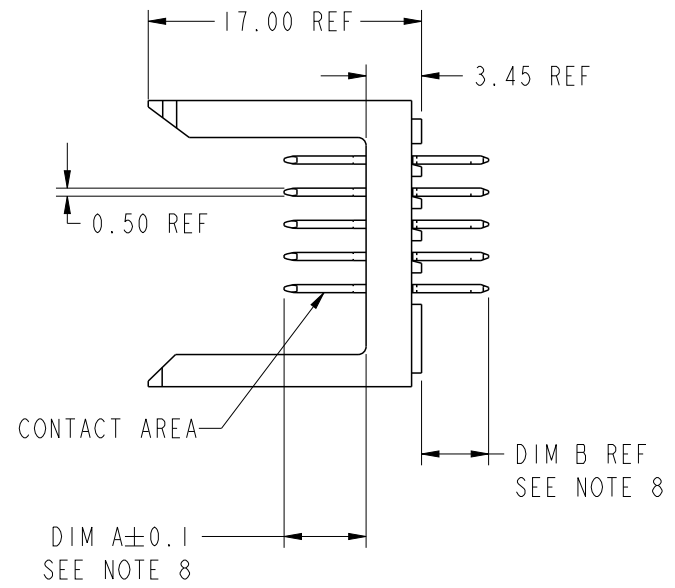
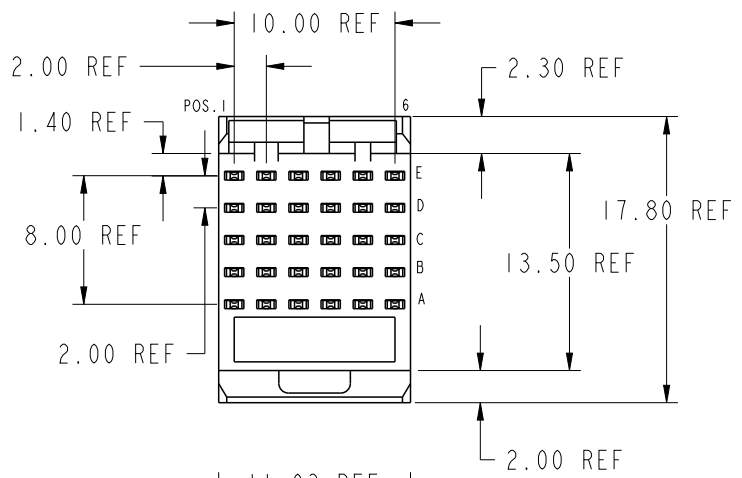


PRODUCT NUMBER
89006-XYX
89006-XYXLF



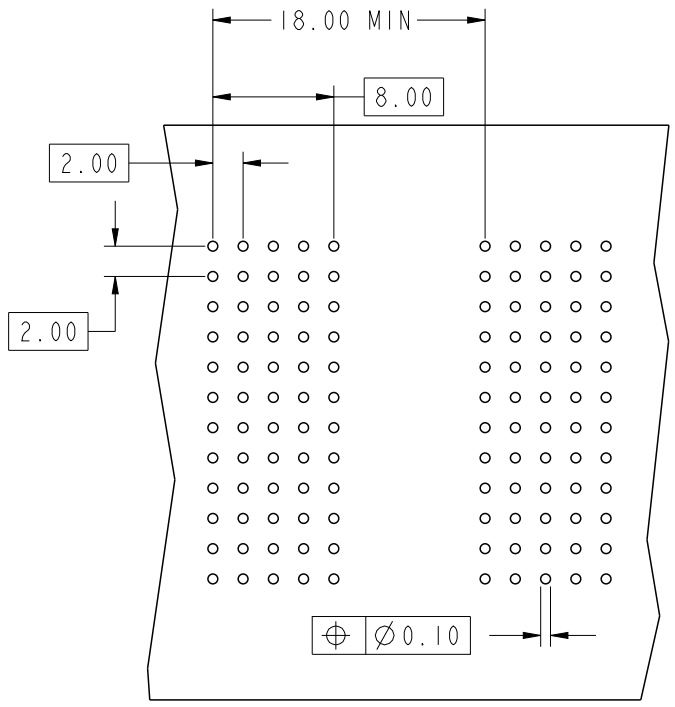
rev	ecn no	dr	date
AY	ELX-DG-13476-1	AL	2012-11-15
BA	ELX-DG-14148-1	AL	2013-03-01
BB	ELX-DG-15498-1	AL	2013-08-26
-	-	-	-
AV	DG-007842	TAO	2011-11-09
AW	ELX-DG-009301-1	AL	2012-01-04
AX	ELX-DG-011219-1	AL	2012-04-05

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	2:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2013/08/26			ecn no		ELX-DG-15498-1	
ISO 406		chr	Sun Richard	2013/08/27			rel level		Released	
ISO 1101		appr	Pei-Ming Zheng	2013/08/28	product family		METRAL			
surface	3.200 linear			title		89006		rev		
		www.fci.com		METRAL SIGNAL HEADER				BB		
				1 MOD, 5 ROW PRESS-FIT						
ISO 1302	angular 0° ±2°			cat. no.		Product - Customer Drw		sheet 1 of 9		

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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
16	7.00	4.30
17	7.00	13.60
18	7.00	17.00
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00
59	5.00	11.80

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



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spec ref *		dr Terran Huang		2010/07/08		projection		size A4		scale 2:1	
tolerance std		eng Andy Lu		2013/08/26				mm		ecn no ELX-DG-15498-1	
ISO 406 ISO 1101		chr Sun Richard		2013/08/27						rel level Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED		appr Pei-Ming Zheng		2013/08/28		product family METRAL		rev		89006	
surface 3.2		linear				title METRAL SIGNAL HEADER		cat. no.		Product - Customer Drw	
ISO 1302		angular		www.fci.com		1 MOD, 5 ROW PRESS-FIT		sheet 2 of 9		BB	
		0.X ±0.3									
		0.XX ±0.13									
		0.XXX ±.050									
		0° ±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						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			1	2	3	4	5	6								
89006-X10 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	89006-X14 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	89006-X19 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	89006-X23 SEE NOTE 10 LEAD FREE OPTION	E	8	8	8	8	8	8	89006-X27 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	89006-X32 SEE NOTE 10 LEAD FREE OPTION	E	12	12	12	12	12	12
	D	1	1	1	1	1	1		D	3	3	3	3	3	D		4	4	4	4	4	D	20		20	20	20	20	D	6	6		6	6	6	D	11	11	11		11	11					
	C	1	1	1	1	1	1		C	4	4	4	4	4	C		4	4	4	4	4	C	8		8	8	8	8	C	6	6		6	6	6	C	11	11	11		11	11					
	B	1	1	1	1	1	1		B	4	4	4	4	4	B		4	4	4	4	4	B	8		8	8	8	8	B	6	6		6	6	6	B	9	9	9		9	9					
	A	1	1	1	1	1	1		A	4	4	4	4	4	A		4	4	4	4	4	A	8		8	8	8	8	A	20	20		20	20	20	A	9	9	9		9	9					

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:1	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2013/08/26			ecn no	ELX-DG-15498-1			
ISO 406		chr	Sun Richard	2013/08/27				rel level	Released		
ISO 1101		appr	Pei-Ming Zheng	2013/08/28	product family	METRAL			rev	BB	
surface	3.200	near	0.X	±0.3		METRAL SIGNAL HEADER	dwg no	89006			
			0.XX	±0.13				cat. no.	-	Product - Customer Drw	sheet 3 of 9
			0.XXX	±0.050							
ISO 1302	angular	0°	±2°	www.fci.com							

ProjE File - REV C - 2009-06-09

A

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X36 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10
	D	10	10	10	10	10	10
	C	10	10	10	10	10	10
	B	10	10	10	10	10	10
	A	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X41 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	1	1	1	1	1	1
	C	2	2	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
89006-X45 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1
	D	19	19	19	19	19	19
	C	1	1	1	1	1	1
	B	19	19	19	19	19	19
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X49 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4
	D	3	3	3	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	19	19	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X53 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	6	6	6	6	6	6
	C	6	6	6	6	6	6
	B	6	6	6	6	6	6
	A	8	8	8	8	8	8

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X57 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	7	7	7	7	7	7
	C	6	6	6	6	6	6
	B	6	6	6	6	6	6
	A	7	7	7	7	7	7

B

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X37 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10
	D	10	10	10	10	10	10
	C	10	10	10	10	10	10
	B	10	10	10	10	10	10
	A	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X42 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	4	4	4	4	4	4
	C	4	4	4	4	4	4
	B	3	3	3	3	3	3
	A	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X46 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	4	4	4	4	4	4
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X50 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	6	6	6	6	6	6
	C	6	6	6	6	6	6
	B	8	8	8	8	8	8
	A	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X54 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	5
	D	7	7	7	7	7	7
	C	8	8	8	8	8	8
	B	7	7	7	7	7	7
	A	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X58 SEE NOTE 10 LEAD FREE OPTION	E	20	20	20	20	20	20
	D	20	20	20	20	20	20
	C	20	20	20	20	20	20
	B	20	20	20	20	20	20
	A	20	20	20	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X39 SEE NOTE 10 LEAD FREE OPTION	E	12	12	12	12	12	12
	D	12	12	12	12	12	12
	C	12	12	12	12	12	12
	B	12	12	12	12	12	12
	A	12	12	12	12	12	12

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X43 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	2	2
	B	2	2	2	2	2	2
	A	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X47 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	3	3	3	3	3	3
	C	2	2	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
89006-X51 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	5	5	5	5	5	5
	C	6	6	6	6	6	6
	B	6	6	6	6	6	6
	A	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X55 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	5
	D	20	20	20	20	20	20
	C	5	5	5	5	5	5
	B	20	20	20	20	20	20
	A	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X59 SEE NOTE 10 LEAD FREE OPTION	E	8	8	8	8	8	8
	D	7	7	7	7	7	7
	C	7	7	7	7	7	7
	B	7	7	7	7	7	7
	A	20	20	20	20	20	20

C

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X40 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	2	2
	B	4	4	4	4	4	4
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X44 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1
	D	3	3	3	3	3	3
	C	4	4	4	4	4	4
	B	3	3	3	3	3	3
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X48 SEE NOTE 10 LEAD FREE OPTION	E	19	19	19	19	19	19
	D	19	19	19	19	19	19
	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
89006-X52 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	8	8	8	8	8	8
	C	8	8	8	8	8	8
	B	7	7	7	7	7	7
	A	8	8	8	8	8	8

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X56 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	6	6	6	6	6	6
	C	8	8	8	8	8	8
	B	6	6	6	6	6	6
	A	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X60 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10
	D	10	10	10	10	10	10
	C	10	10	10	10	10	10
	B	12	12	12	12	12	12
	A	10	10	10	10	10	10



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D

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:1	
tolerance std	ISO 406 ISO 1101	eng	Andy Lu	2013/08/26			ecn no	ELX-DG-15498-1			
	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Sun Richard	2013/08/27	product family	METRAL	rel level	Released			
surface	3.200 linear	appr	Pei-Ming Zheng	2013/08/28	METRAL SIGNAL HEADER		dwg no	89006		rev	BB
	ISO 1302					1 MOD, 5 ROW PRESS-FIT					
	angular				www.fci.com	cat. no.		Product - Customer Drw		sheet 4 of 9	



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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						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			1	2	3	4	5	6								
89006-X61 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10	89006-X65 SEE NOTE 10 LEAD FREE OPTION	E	9	9	9	9	9	9	89006-X69 SEE NOTE 10 LEAD FREE OPTION	E	12	12	12	12	12	12	89006-X73 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	89006-X77 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	89006-X81 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7
	D	9	9	9	9	9	9		D	21	21	21	21	21	D		11	11	11	11	11	D	4		4	4	4	4	D	19	19		19	19	19	D	20	20	20		20	20					
	C	10	10	10	10	10	10		C	9	9	9	9	9	C		11	11	11	11	11	C	4		4	4	4	4	C	4	4		4	4	4	C	7	7	7		7	7					
	B	10	10	10	10	10	10		B	21	21	21	21	21	B		11	11	11	11	11	B	4		4	4	4	4	B	3	3		3	3	3	B	20	20	20		20	20					
	A	11	11	11	11	11	11		A	9	9	9	9	9	A		21	21	21	21	21	A	13		13	13	13	13	A	3	3		3	3	3	A	7	7	7		7	7					

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:1	
tolerance std	ISO 406 ISO 1101	eng	Andy Lu	2013/08/26			ecn no	ELX-DG-15498-1			
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Sun Richard	2013/08/27				product family	METRAL	rel level	Released
surface	3.200 ISO 1302	appr	Pei-Ming Zheng	2013/08/28	METRAL			rev	BB		
	near	0.X	±0.3		METRAL SIGNAL HEADER			dwg no	89006		
		0.XX	±0.13		1 MOD, 5 ROW PRESS-FIT				sheet 5 of 9		
	angular	0°	±2°		cat. no.	-	Product - Customer Drw				



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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X85 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7
	D	7	7	7	7	7	7
	C	6	6	6	6	6	6
	B	7	7	7	7	7	7
	A	7	7	7	7	7	7

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Andy Lu	2013/08/26			ecn no	ELX-DG-15498-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	Sun Richard	2013/08/27				product family	METRAL	rel level
surface	3.2	appr	Pei-Ming Zheng	2013/08/28	product family			METRAL	rel level	Released
ISO 1302	angular	0°	±2°		title			METRAL SIGNAL HEADER		rev
	0.X	±0.3			1 MOD, 5 ROW PRESS-FIT			dwg no		89006
	0.XX	±0.13			cat. no.			Product - Customer Drw		sheet 6 of 9
	0.XXX	±.050								BB

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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X109 SEE NOTE 10 LEAD FREE OPTION	E	59	59	59	59	59	59
	D	59	59	59	59	59	59
	C	59	59	59	59	59	59
	B	59	59	59	59	59	59
	A	77	77	77	77	77	77

C

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:1
tolerance std	ISO 406 ISO 1101	eng	Andy Lu	2013/08/26			ecn no	ELX-DG-15498-1		
	TOLERANCES UNLESS OTHERWISE SPECIFIED	chr	Sun Richard	2013/08/27				product family	METRAL	rel level
surface	3.2	appr	Pei-Ming Zheng	2013/08/28	product family			METRAL	rel level	Released
	ISO 1302				FCI	title	METRAL SIGNAL HEADER			rev
	near						dwg no	89006		BB
	angular				www.fci.com	cat. no.	Product - Customer Drw			sheet 7 of 9

D

1

2

3

4

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
89006-X133 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	2	2
	B	2	2	2	2	2	2
	A	2	2	1	2	2	2

A

B

C

D

A

B

C

D



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spec ref *		dr	Terran Huang	2010/07/08	projection 	mm 	size	A4	scale	1:1		
tolerance std		eng	Andy Lu	2013/08/26			product family	METRAL	ecn no		ELX-DG-15498-1	
ISO 406 ISO 1101		chr	Sun Richard	2013/08/27				rel level		Released		
surface $\sqrt{3.2}$	linear	0.X	± 0.3		FCI	title	METRAL SIGNAL HEADER			dwg no	89006	rev
		0.XX	± 0.13									
		0.XXX	± 0.050									
ISO 1302	angular	0°	$\pm 2^\circ$		www.fci.com	cat. no.	-	Product - Customer Drw		sheet 8 of 9		

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1

2

3

4

PRODUCT NUMBER

89006-XYX

89006-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:
73931-XYX IS SnPb
73931-XYXLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE BELOW.
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
7. PRODUCT SPECIFICATION GS-12-180
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.)-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.
10. FOR LEAD FREE PART NUMBERS, ADD "LF" SUFFIX.
EXAMPLE:89006-X01LF
11. -A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE)

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-AYY	TELCORDIA CO	SEE NOTE 11
-PYY	0.25 um GOLD MIN.	-
-NIYY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-IYY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS 1	-
-5YY	TELCORDIA UE	-
-NIYY	TELCORDIA CO (NXT) IEC CLASS 1	SEE NOTE 9
-N5YXLF	TELCORDIA UE (NXT)	SEE NOTE 9
-IYXLF	TELCORDIA CO IEC CLASS 1	SEE NOTE 9
-2YXLF	TELECOM CLASS	SEE NOTE 9
-5YXLF	TELCORDIA UE	SEE NOTE 9



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spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:1
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2013/08/26			ecn no	ELX-DG-15498-1		
ISO 406		chr	Sun Richard	2013/08/27				product family	METRAL	rel level
ISO 1101		appr	Pei-Ming Zheng	2013/08/28	title	METRAL SIGNAL HEADER	dwg no			
surface	linear	0.X	±0.3	www.fci.com				cat. no.	-	Product - Customer Drw
ISO 1302	angular	0.XX	±0.13							
		0.XXX	±0.050							