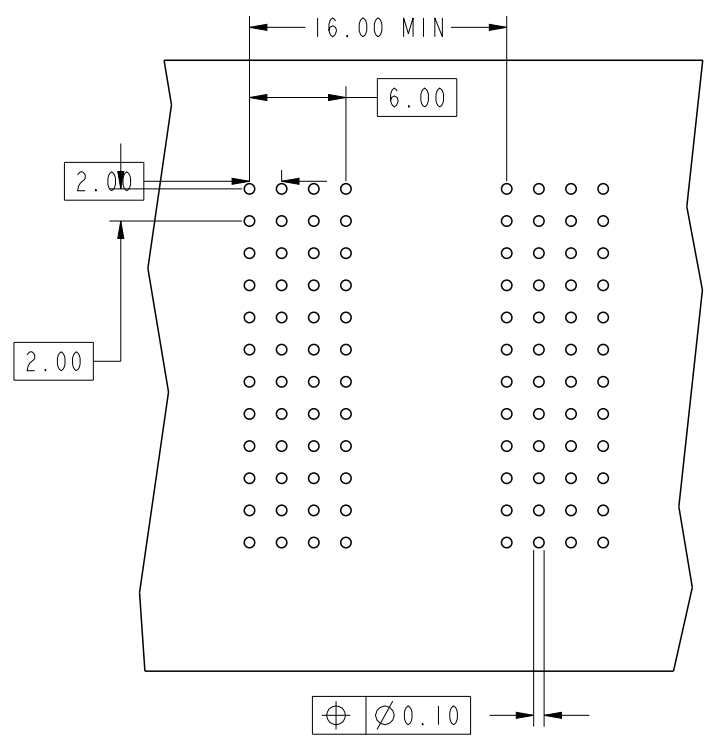




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REQUIRED PC BOARD LAYOUT
COMPONENT SIDE
SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

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
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

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
20	8.00	13.60
21	8.00	17.00
22	5.00	12.10
25	5.75	15.60
40	5.00	15.60
41	6.50	15.60
42	7.25	15.60
43	8.00	15.60
44	5.75	12.10
45	6.50	12.10
48	5.00	15.10
54	5.00	11.50
55	5.75	11.50
56	6.50	11.50
59	5.00	11.80
60	5.75	11.80
61	6.50	11.80
62	7.25	11.80
63	8.00	11.80

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	21:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
FCI		title			METRAL SIGNAL HEADER		rev	
					1 MOD, 5 ROW PRESS-FIT		BH	
www.fci.com		cat. no.			-		Product - Customer Drw	
							sheet 2 of 9	



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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														
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85838-X01		E	25	25	25	25	25	25	85838-X05		E	44	44	44	44	44	44	85838-X09		E	N/A						85838-X13		E	3	3	3	3	3	3
		D	25	25	25	25	25	25			D	22	22	22	22	22	22			D	6	6	6	6	6	6	85838-X13		D	3	3	3	3	3	3
-----		C	25	25	25	25	25	25	-----		C	44	44	44	44	44	44	-----		C	6	6	6	6	6	6	-----		C	3	3	3	3	3	3
85838-X01LF		B	25	25	25	25	25	25	85838-X05LF		B	44	44	44	44	44	44	85838-X09LF		B	6	6	6	6	6	6	85838-X13LF		B	2	2	2	2	2	2
		A	25	25	25	25	25	25			A	45	45	45	45	45	45			A	6	6	6	6	6	6			A	2	2	2	2	2	2
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I														
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85838-X02		E	1	1	1	1	1	1	85838-X06		E	1	1	1	1	1	1	85838-X10		E	N/A						85838-X14		E	16	16	16	16	16	16
		D	3	3	3	3	3	3			D	1	1	1	1	1	1			D	2	2	2	2	2	2	85838-X14		D	16	16	16	16	16	16
-----		C	19	19	19	19	19	19	-----		C	3	3	3	3	3	3	-----		C	2	2	2	2	2	2	-----		C	16	16	16	16	16	16
85838-X02LF		B	3	3	3	3	3	3	85838-X06LF		B	1	1	1	1	1	1	85838-X10LF		B	2	2	2	2	2	2	85838-X14LF		B	16	16	16	16	16	16
		A	1	1	1	1	1	1			A	1	1	1	1	1	1			A	2	2	2	2	2	2			A	16	16	16	16	16	16
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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85838-X03		E	3	3	3	3	3	3	85838-X07		E	19	19	19	19	19	19	85838-X11		E	N/A						85838-X15		E	13	13	13	13	13	13
		D	3	3	3	3	3	3			D	4	4	4	4	4	4			D	4	4	4	4	4	4	85838-X15		D	13	13	13	13	13	13
-----		C	3	3	3	3	3	3	-----		C	4	4	4	4	4	4	-----		C	4	4	4	4	4	4	-----		C	13	13	13	13	13	13
85838-X03LF		B	19	19	19	19	19	19	85838-X07LF		B	4	4	4	4	4	4	85838-X11LF		B	19	19	19	19	19	19	85838-X15LF		B	13	13	13	13	13	13
		A	3	3	3	3	3	3			A	4	4	4	4	4	4			A	19	19	19	19	19	19			A	13	13	13	13	13	13
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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85838-X04		E	3	3	3	3	3	3	85838-X08		E	20	20	20	20	20	20	85838-X12		E	7	7	7	7	7	7	85838-X16		E	17	17	17	17	17	17
		D	10	10	10	10	10	10			D	8	8	8	8	8	8			D	7	7	7	7	7	7	85838-X16		D	17	17	17	17	17	17
-----		C	10	10	10	10	10	10	-----		C	8	8	8	8	8	8	-----		C	7	7	7	7	7	7	-----		C	17	17	17	17	17	17
85838-X04LF		B	9	9	9	9	9	9	85838-X08LF		B	8	8	8	8	8	8	85838-X12LF		B	7	7	7	7	7	7	85838-X16LF		B	17	17	17	17	17	17
		A	10	10	10	10	10	10			A	8	8	8	8	8	8			A	3	3	3	3	3	3			A	17	17	17	17	17	17

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no		ELX-DG-012854-1	
chr	-	-			rel level		Released	
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
			title			dwg no		rev
			METRAL SIGNAL HEADER			85838		BH
			1 MOD, 5 ROW PRESS-FIT					
www.fci.com			cat. no.		-		Product - Customer Drw	
							sheet 3 of 9	

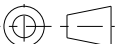


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METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I																			
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		D	14	14	14	14	14	14			D	10	10	10	10	10	10			D	22	22	22	22	22	22			D	56	56	56	56	56	56														
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		A	14	14	14	14	14	14			A	11	11	11	11	11	11			A	22	22	22	22	22	22			A	56	56	56	56	56	56														
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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85838-X18		E	18	18	18	18	18	18	85838-X22		E	2	2	2	2	2	2	85838-X26		E	54	54	54	54	54	54	85838-X30		E	3	3	3	3	3	3														
		D	18	18	18	18	18	18			D	4	4	4	4	4	4			D	55	55	55	55	55	55			D	3	3	3	3	3	3														
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85838-X18LF		B	18	18	18	18	18	18	85838-X22LF		B	2	2	2	2	2	2	85838-X26LF		B	55	55	55	55	55	55	85838-X30LF		B	3	3	3	3	3	3														
		A	18	18	18	18	18	18			A	2	2	2	2	2	2			A	54	54	54	54	54	54			A	3	3	3	3	3	3														
METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I						METRAL P/N		ROW	CONTACT CODE MOD. I																			
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85838-X19		E	15	15	15	15	15	15	85838-X23		E	19	19	19	19	19	19	85838-X27		E	48	48	48	48	48	48	85838-X31		E	1	1	1	1	1	1														
		D	15	15	15	15	15	15			D	1	1	1	1	1	1			D	48	48	48	48	48	48			D	3	3	3	3	3	3														
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		A	15	15	15	15	15	15			A	19	19	19	19	19	19			A	48	48	48	48	48	48			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																			
			1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6				1	2	3	4	5	6														
85838-X20		E	10	10	10	10	10	10	85838-X24		E	20	20	20	20	20	20	85838-X28		E	3	3	3	3	3	3	85838-X32		E	1	1	1	1	1	1														
		D	9	9	9	9	9	9			D	5	5	5	5	5	5			D	19	19	19	19	19	19			D	1	1	1	1	1	1														
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85838-X20LF		B	9	9	9	9	9	9	85838-X24LF		B	5	5	5	5	5	5	85838-X28LF		B	3	3	3	3	3	3	:85838-X32LF		B	1	1	1	1	1	1														
		A	11	11	11	11	11	11			A	20	20	20	20	20	20			A	1	1	1	1	1	1			A	2	2	2	2	2	2														



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dr	Terran Huang	2010/07/08	projection 	MM 	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no		ELX-DG-012854-1	
chr	-	-			rel level		Released	
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
		title			METRAL SIGNAL HEADER			rev
		I MOD, 5 ROW PRESS-FIT			dwg no			85838
www.fci.com		cat. no.			-			Product - Customer Drw
								sheet 5 of 9



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dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
		title			METRAL SIGNAL HEADER			rev
		I MOD, 5 ROW PRESS-FIT			85838			BI
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 6 of 9



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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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85838-X65	E	6	6	6	6	6	6	85838-X69	E	I	I	I	I	I	I	85838-X73	E	3	3	3	3	3	3	85838-X77	E	I	I	I	I	I	I
	D	7	7	7	7	7	7		D	2	2	2	2	2	2		D	3	3	3	3	3	3		D	2	2	2	2	2	2
-----	C	8	8	8	8	8	8	-----	C	2	2	2	2	2	2	-----	C	3	3	3	3	3	3	-----	C	2	2	2	2	2	2
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	A	8	8	8	8	8	8		A	4	4	4	4	4	4		A	4	4	4	4	4	4		A	2	2	2	2	2	2
METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I					
85838-X66	E	I	I	I	I	I	I	85838-X70	E	I	I	I	I	I	I	85838-X74	E	I	I	I	I	I	I	85838-X78	E	I	I	I	I	I	I
	D	I	I	I	I	I	I		D	I	I	I	I	I	I		D	I	I	I	I	I	I		D	I	I	I	I	I	I
-----	C	-	-	-	-	-	-	-----	C	4	4	4	4	4	4	-----	C	I	I	I	I	I	I	-----	C	2	2	2	2	2	2
85838-X66LF	B	I	I	I	I	I	I	85838-X70LF	B	2	2	2	2	2	2	85838-X74LF	B	I	I	I	I	I	I	85838-X78LF	B	2	2	2	2	2	2
	A	I	I	I	I	I	I		A	2	2	2	2	2	2		A	I	I	I	I	I	I		A	3	3	3	3	3	3
METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I						METRAL P/N	ROW	CONTACT CODE MOD. I					
85838-X67	E	2	2	2	2	2	2	85838-X71	E	3	3	3	3	3	3	85838-X75	E	3	3	3	3	3	3	85838-X79	E	I	I	I	I	I	I
	D	2	2	2	2	2	2		D	3	3	3	3	3	3		D	2	2	2	2	2	2		D	I	I	I	I	I	I
-----	C	2	2	2	2	2	2	-----	C	3	3	3	3	3	3	-----	C	2	2	2	2	2	2	-----	C	3	3	3	3	3	3
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	A	I	I	I	I	I	I		A	2	2	2	2	2	2		A	2	2	2	2	2	2		A	I	I	I	I	I	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					
85838-X68	E	60	60	60	60	60	60	85838-X72	E	6	6	6	6	6	6	85838-X76	E	4	4	4	4	4	4	85838-X80	E	I	I	I	I	I	I
	D	59	59	59	59	59	59		D	8	8	8	8	8	8		D	3	3	3	3	3	3		D	3	3	3	3	3	3
-----	C	60	60	60	60	60	60	-----	C	8	8	8	8	8	8	-----	C	3	3	3	3	3	3	-----	C	3	3	3	3	3	3
85838-X68LF	B	60	60	60	60	60	60	85838-X72LF	B	8	8	8	8	8	8	85838-X76LF	B	3	3	3	3	3	3	85838-X80LF	B	3	3	3	3	3	3
	A	61	61	61	61	61	61		A	6	6	6	6	6	6		A	3	3	3	3	3	3		A	I	I	I	I	I	I

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
		title			METRAL SIGNAL HEADER		rev	
					I MOD, 5 ROW PRESS-FIT		BH	
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 7 of 9



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METRAL P/N	ROW	CONTACT CODE MOD. I					
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85838-X81	E	3	3	3	3	3	3
	D	1	1	1	1	1	1
	C	1	1	1	1	1	1
-----	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85838-X82	E	1	1	1	1	1	1
	D	1	1	1	1	1	1
	C	2	2	2	2	2	2
-----	B	1	1	1	1	1	1
	A	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
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85838-X83	E	1	1	-	1	1	1
	D	3	3	-	3	3	3
	C	-	-	3	3	3	3
-----	B	3	3	-	3	3	3
	A	1	1	-	1	1	1

dr	Terran Huang	2010/07/08	projection	MM	size	A4	scale	11:10	
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1			
chr	-	-			rel level	Released			
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL				
		title			METRAL SIGNAL HEADER		dwg no	85838	rev
					I MOD, 5 ROW PRESS-FIT				
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 8 of 9	

PRODUCT NUMBER

85838-XYX

85838-XYXLF

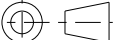
NOTES:

- 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: 85838-XYX IS SnPb, 85838-XYXLF IS Sn(LEAD FREE)
CONTACT AREA CONFORMS TO PERFORMANCE LEVEL
SHOWN IN TABLE BELOW.
- 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
- 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).

10. 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.

PLATING IN CONTACT AREA		NOTES
DASH NUMBER	PERFORMANCE LEVEL	-
-AYX	TELCORDIA CO (SEE NOTE 9)	-
-N1XX	TELCORDIA CO (NXT)	-
-N5XX	TELCORDIA UE (NXT)	-
-1XX	TELCORDIA CO	-
-2XX	TELECOM CLASS	-
-3XX	IEC CLASS I	-
-5XX	TELCORDIA UE	-
-AYXLF	TELCORDIA CO (SEE NOTE 9)	SEE NOTE 10
-N1XXLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5XXLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1XXLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2XXLF	TELECOM CLASS	SEE NOTE 10
-5XXLF	TELCORDIA UE	SEE NOTE 10

dr	Terran Huang	2010/07/08	projection 	MM 	size	A4	scale	11:10
eng	Julia Wang	2012/09/19			ecn no	ELX-DG-012854-1		
chr	-	-			rel level	Released		
appr	Pei-Ming Zheng	2012/09/19	product family		METRAL			
		title			METRAL SIGNAL HEADER			rev
					1 MOD, 5 ROW PRESS-FIT			BH
www.fci.com		cat. no.	-	Product - Customer Drw			sheet 9 of 9	
					dwg no		85838	