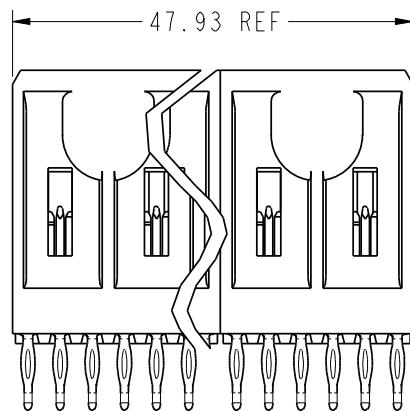
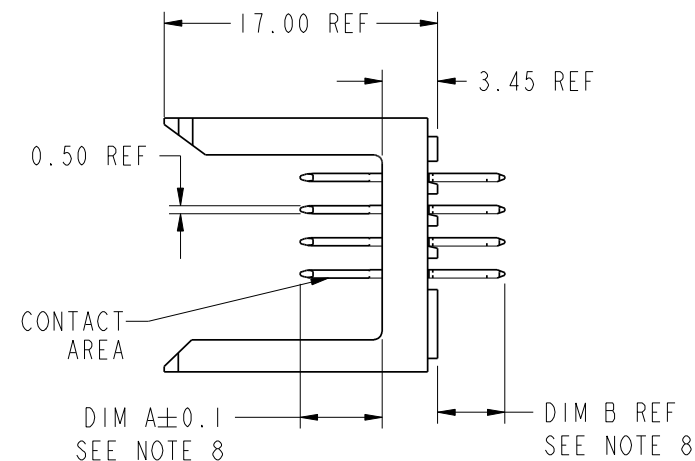
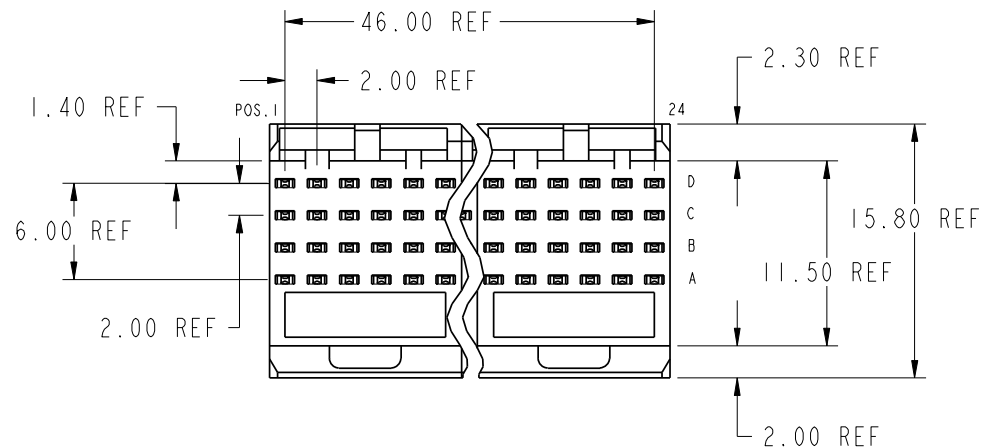


PRODUCT NUMBER

88923-XYX

88923-XYXLF



rev	ecn no	dr	date
BB	V06-0569	DCH	2006-06-13
BC	V07-0240	HTB	2007-03-20
BD	DG10-0392	TER	2010-11-12
-	-	-	-
AX	V05-0662	DA1	2005-07-14
AY	V05-0858	DA1	2005-09-08
BA	V05-1030	LP	2005-11-21

www.fciconnect.com			surface ISO 1302	tolerance std ISO 406 ISO 1101	projection A4	mm
Dr	T.BRUNGARD	11/19/99	ANGULAR 0° ±2°	0.X ±0.3	size	Scale
Eng	M.STRAWSER	11/19/99		0.XX ±0.13	A4	21:10
Chr	M.STRAWSER	11/19/99		0.XXX ±0.051	ECN	
Appr	M.STRAWSER	02/29/00	Product family	METRAL	Spec ref	*
FCI			title METRAL SIGNAL HEADER 4 MOD, 4 ROW PRESS-FIT			Rev. BD
catalog no			* CUSTOMER			sheet 1 of 9

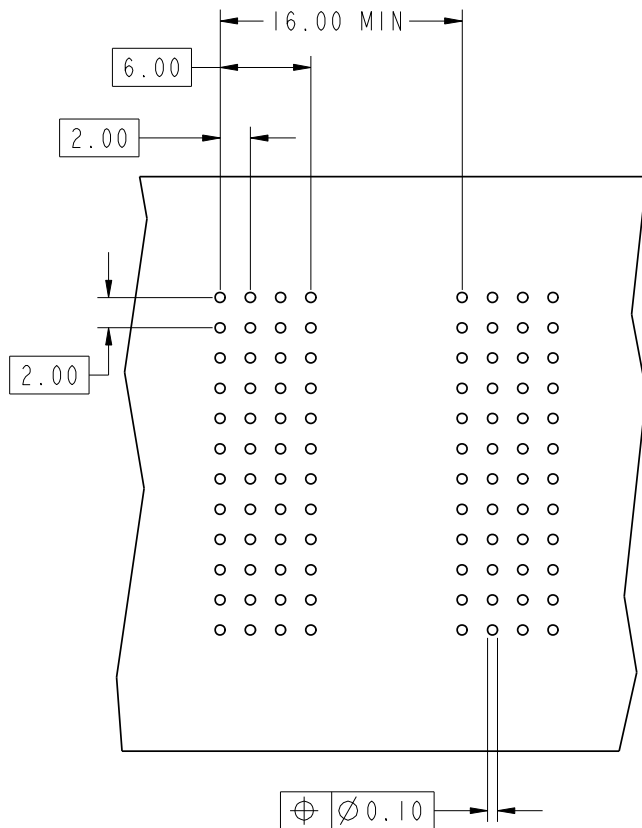
REV F - 2006-04-17

PDM: Rev:BD

STATUS:Released 4 Printed: Jan 17, 2011



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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
13	8.25	4.30
14	8.25	13.60
19	8.00	4.30
20	8.00	13.60
25	5.75	15.60
59	5.00	11.80
60	5.75	11.80
61	6.50	11.80

www.fciconnect.com			surface ISO 1302		✓	tolerance std ISO 406 ISO 1101		projection 		mm 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	T.BRUNGARD	11/19/99	ANGULAR		LINEAR	0.X	±0.3	size A4	Scale 11:10		
Eng	M.STRAWSER	11/19/99				0.XX	±0.13				
Chr	M.STRAWSER	11/19/99				0°. ±2°	0.XXX				
Appr	M.STRAWSER	02/29/00	Product family				METRAL		ECN		
									Spec ref		
			title METRAL SIGNAL HEADER				dwg no 88923		Rev. BD		
			4 MOD, 4 ROW PRESS-FIT								
			catalog no				*		CUSTOMER		sheet 2 of 9



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X01 SEE NOTE 11 LEAD FREE OPTION	D	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	C	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	B	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	A	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X02 SEE NOTE 11 LEAD FREE OPTION	D	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	C	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	B	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	A	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X03 SEE NOTE 11 LEAD FREE OPTION	D	I	I	I	I	I	I	-	-	-	-	-	-	-	-	-	-	-	-	I	I	I	I	I	I
	C	I	I	I	I	I	I	-	-	-	-	-	-	-	-	-	-	-	I	I	I	I	I	I	I
	B	I	I	I	I	I	I	-	-	-	-	-	I	-	-	-	-	-	I	I	I	I	I	I	I
	A	I	I	I	I	I	I	-	-	-	-	-	I	-	-	-	-	-	I	I	I	I	I	I	I

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X04 SEE NOTE 11 LEAD FREE OPTION	D	3	I	I	3	3	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	3
	C	3	I	I	3	3	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	3
	B	3	I	I	3	3	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	3
	A	3	I	I	3	3	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X05 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	C	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	B	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	A	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X06 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	I	I	I	I	I	I	2	2	2	2	2	2	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X07 SEE NOTE 11 LEAD FREE OPTION	D	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	C	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	B	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	A	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X08 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X09 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	C	6	6	6	6	6	6	6	6	6	6	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	B	6	6	6	6	6	6	6	6	6	6	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	A	6	6	6	6	6	6	6	6	6	6	20	20	20	20	20	20	20	20	20	20	20	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X10 SEE NOTE 11 LEAD FREE OPTION	D	I	I	I	-	-	I	I	I	I	-	-	I	I	I	I	I	I	I	-	-	I	I	I	I
	C	I	I	I	-	-	I	I	I	I	I	-	I	I	I	I	I	I	I	-	-	I	I	I	I
	B	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	A	I	I	I	-	-	I	I	I	I	I	I	-	I	I	I	I	I	I	I	-	-	I	I	I

www.fciconnect.com			surface ☒ ISO 1302		tolerance std ISO 406 ISO 1101		projection		mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	T.BRUNGARD	11/19/99	ANGULAR LINEAR		0.X ±0.3		size A4		Scale 11:10	
Eng	M.STRAWSER	11/19/99			0.XX ±0.13					
Chr	M.STRAWSER	11/19/99	0° ±2°		0.XXX ±0.051		ECN			
Appr	M.STRAWSER	02/29/00	Product family		METRAL		Spec ref		*	
			title METRAL SIGNAL HEADER				dwg no 88923		Rev. BD	
			4 MOD, 4 ROW PRESS-FIT							
			catalog no				*		CUSTOMER	
									sheet 3 of 9	



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X11 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X12 SEE NOTE 11 LEAD FREE OPTION	D	19	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19
	C	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X13 SEE NOTE 11 LEAD FREE OPTION	D	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	2	2
	C	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	3	3
	B	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	3	3
	A	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	2	2
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X14 SEE NOTE 11 LEAD FREE OPTION	D	1	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	C	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X15 SEE NOTE 11 LEAD FREE OPTION	D	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1
	C	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3
	B	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1
	A	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19	1	19

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PDM: Rev:BD

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STATUS:Released 4 Printed: Jan 17, 2011

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X16 SEE NOTE 11 LEAD FREE OPTION	D	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X17 SEE NOTE 11 LEAD FREE OPTION	D	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6
	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6	-	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X18 SEE NOTE 11 LEAD FREE OPTION	D	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	B	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X19 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	4	4	2	4	2	4	2	4	2	4	4	2	4	4
	A	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X20 SEE NOTE 11 LEAD FREE OPTION	D	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1
	C	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	19	19
	B	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	19
	A	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1

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www.fciconnect.com			surface ISO 1302		✓	tolerance std ISO 406 ISO 1101		projection 		mm 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	T.BRUNGARD	11/19/99	ANGULAR		LINEAR		0.X	±0.3	size A4	Scale 1:10	
Eng	M.STRAWSER	11/19/99					0.XX	±0.13			
Chr	M.STRAWSER	11/19/99					0°. ±2°	0.XXX			
Appr	M.STRAWSER	02/29/00	Product family				METRAL		ECN		
							Spec ref		*		
			title METRAL SIGNAL HEADER 4 MOD, 4 ROW PRESS-FIT				dwg no 88923		Rev. BD		
			catalog no				*		CUSTOMER		sheet 4 of 9



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X21 SEE NOTE 11 LEAD FREE OPTION	D	1	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19
	C	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3
	B	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	3	3	3	3	3
	A	1	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3	19	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X22 SEE NOTE 11 LEAD FREE OPTION	D	13	13	13	13	13	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	19	19	19	19	19	19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	19	19	19	19	19	19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	13	13	13	13	13	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X23 SEE NOTE 11 LEAD FREE OPTION	D	14	14	14	14	14	14	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	20	20	20	20	20	20	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	20	20	20	20	20	20	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	A	14	14	14	14	14	14	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X24 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	8	8	6	8	8	6	8	8	6	8	8	6	8	8	8
	A	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X25 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X26 SEE NOTE 11 LEAD FREE OPTION	D	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
	C	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
	B	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
	A	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X27 SEE NOTE 11 LEAD FREE OPTION	D	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	C	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	B	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	A	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X28 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	4	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X29 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	-	-	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2						MOD. 3						MOD. 4					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X30 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1

www.fciconnect.com			surface ☒ ISO 1302		tolerance std ISO 406 ISO 1101		projection		mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	T.BRUNGARD	11/19/99	ANGULAR LINEAR		0.X ±0.3		size A4		Scale 11:10	
Eng	M.STRAWSER	11/19/99			0.XX ±0.13					
Chr	M.STRAWSER	11/19/99	0° ±2°		0.XXX ±0.051		ECN			
Appr	M.STRAWSER	02/29/00	Product family		METRAL		Spec ref		*	
			title METRAL SIGNAL HEADER				dwg no 88923		Rev. BD	
			4 MOD, 4 ROW PRESS-FIT							
			catalog no *				CUSTOMER		sheet 5 of 9	



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X41 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	20	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	20	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	20	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	20	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X42 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	20	20	8	8	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X43 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	6	7	7	7	7	7	7	7	6	7	7	7	7	20	8	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X44 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	20	8	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X45 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	8	8	8	6	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7
	C	7	7	7	6	6	6	7	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	20	20	8	8	7	7

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X46 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	3	3	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	3	3	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X47 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	3	3	1	3	3	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	3	1	3	3	1	1	1
	A	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	3	1	3	3	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						MOD. 3						MOD. 4						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X48 SEE NOTE 11 LEAD FREE OPTION	D	1	1	3	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
	C	1	1	3	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	1
	A	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	3	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X49 AND 88923-X49LF SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	6	7	7	7	7	7	7	7	6	7	7	7	7	7	8	8	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X50 AND 88923-X50LF SEE NOTE 11 LEAD FREE OPTION	D	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	C	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

www.fciconnect.com			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 			
			TOLERANCES UNLESS OTHERWISE SPECIFIED									
Dr	T.BRUNGARD	11/19/99	ANGULAR	LINEAR	0.X		±0.3		size A4	Scale 11:10		
Eng	M.STRAWSER	11/19/99			0.XX		±0.13					
Chr	M.STRAWSER	11/19/99			0° ±2°		0.XXX		±0.051			
Appr	M.STRAWSER	02/29/00	Product family		METRAL		Spec ref		*			
		title			METRAL SIGNAL HEADER			dwg no		88923		Rev.
					4 MOD, 4 ROW PRESS-FIT							BD
		catalog no			*			CUSTOMER		sheet 7 of 9		



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X51 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X52 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	7	7	7	7	8	8	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X53 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	8	8	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7
	A	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88923-X54 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	3	3	3	3	3	1	1	1	1	1	1	3	3	3	3	3	3	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
88923-X55 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2



www.fciconnect.com			surface	✓	tolerance std	projection	mm	
			ISO 1302		ISO 406 ISO 1101			
			TOLERANCES UNLESS OTHERWISE SPECIFIED			size		Scale
Dr	T.BRUNGARD	11/19/99	ANGULAR	LINEAR	0.X	±0.3	A4	11:10
Eng	M.STRAWSER	11/19/99			0.XX	±0.13		
Chr	M.STRAWSER	11/19/99	0°	±2°	0.XXX	±0.051	ECN	
Appr	M.STRAWSER	02/29/00	Product family			METRAL	Spec ref	
			title			88923		Rev.
			METRAL SIGNAL HEADER			BD		
			4 MOD, 4 ROW PRESS-FIT					
			catalog no			*	CUSTOMER	
								sheet 8 of 9



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PLATING IN CONTACT AREA

DASH NUMBER	PERFORMANCE LEVEL	NOTES
-Ayy	TELCORDIA CO	SEE NOTE 9
-NIyy	TELCORDIA CO (NXT)	-
-N5yy	TELCORDIA UE (NXT)	-
-Iyy	TELCORDIA CO	-
-2Yy	TELECOM CLASS	-
-3Yy	IEC CLASS I	-
-5Yy	TELCORDIA UE	-
-9Yy	TELCORDIA CO	-
-AYYLF	TELCORDIA CO	SEE NOTE 10
-NIYYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 10
-IYYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2YYLF	TELECOM CLASS	SEE NOTE 10
-5YYLF	TELCORDIA UE	SEE NOTE 10

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:
88923 -XYy IS SnPb
88923-XYyLF 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-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.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
EXAMPLE: 88923-X01LF
- 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.

www.fciconnect.com			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	T.BRUNGARD	11/19/99	ANGULAR		LINEAR		0.X	±0.3	size A4	Scale 1:10
Eng	M.STRAWSER	11/19/99					0.XX	±0.13		
Chr	M.STRAWSER	11/19/99					0.XXX	±0.051		
Appr	M.STRAWSER	02/29/00	0°	±2°			ECN			
			Product family				METRAL		Spec ref *	
			title METRAL SIGNAL HEADER				dwg no 88923		Rev. BD	
			4 MOD, 4 ROW PRESS-FIT				*		CUSTOMER	
catalog no					sheet 9 of 9					