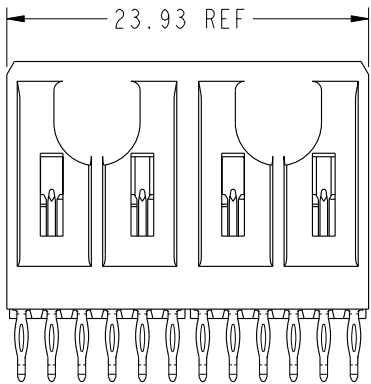
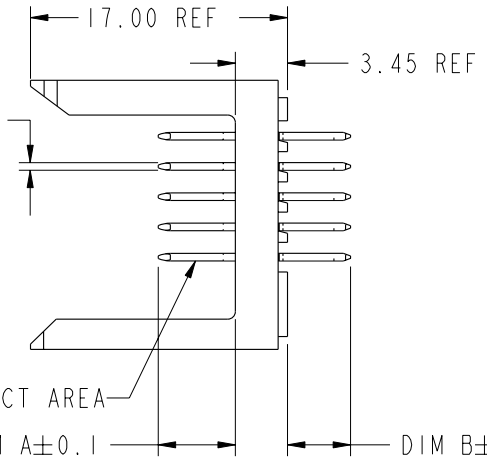
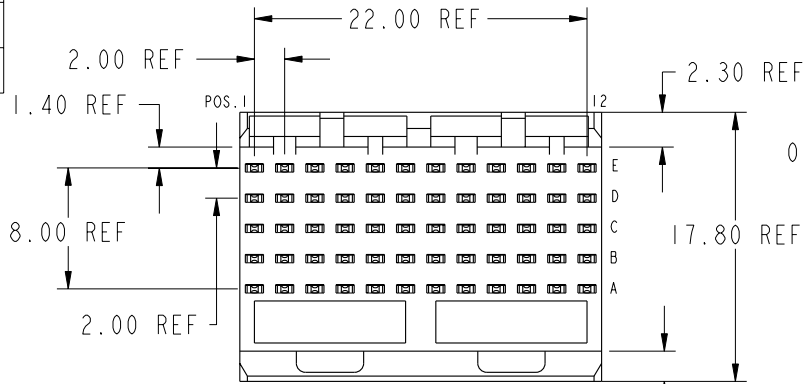


PRODUCT NUMBER
88903-XY
88903-XYLFF



- 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: 88903-XY IS SnPb, 88903-XYLFF IS Sn (LEAD FREE). PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
 - PRODUCT MARKING: PART NUMBER DESIGNATION J8 BATCH I.D.
 - ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXX-XXXP OR XXXX-XXPLP
 - PRODUCT SPECIFICATION: GS-12-180 APPLICATION SPECIFICATION: BUS-20-073
 - AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
 - YY 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: 88903-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 (DRAWING NO.)-N5--- WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACES OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM OF 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-PYY	0.25 um GOLD MIN.	SEE NOTE 9
-NIYY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS 1	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-NIYYLF	TELCORDIA CO (NXT) IEC CLASS 1	SEE NOTE 10
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1YYLF	TELCORDIA CO IEC CLASS 1	SEE NOTE 10
-2YYLF	TELECOM CLASS	SEE NOTE 10
-5YYLF	TELCORDIA UE	SEE NOTE 10

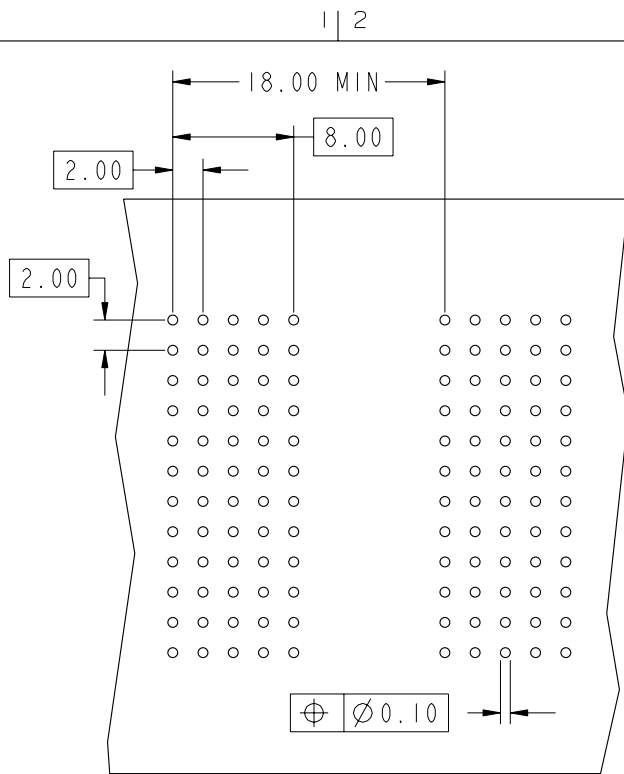
mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI	
--				0.X ± 0.3		COPY		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.XX ± 0.13	projection		title	
S	V06-0305	LP	04/10/06		.XXX ± 0.051	⊕		METRAL SIGNAL HEADER	
T	V06-0433	DAI	2006-05-09		0° ± 2°	MM		2 MOD, 5 ROW PRESS-FIT	
U	V06-0984	DCH	2006-09-29	angles		← MM →		product family METRAL code	
N	V05-1027	LP	11/09/05	dr	T.BRUNGARD 11/19/99	scale		size	
P	V05-1130	DAI	12/21/05	enrg	M.STRAWSER 11/19/99	2:1		dwg no	
R	V06-0211	LP	3/8/06	chr	M.STRAWSER 11/19/99			A 88903	
		appd	M.STRAWSER 02/29/00	appd	M.STRAWSER 02/29/00			sheet 213	
sheet	revision	U	U	U	U			1 of 4	
index	sheet	1	2	3	4				



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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
6	5.75	13.60
7	6.50	13.60
12	7.25	17.00
19	8.00	4.30
23	8.00	17.70
25	5.75	15.60
42	7.25	15.60

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fcjconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection		title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
U					0.XX ±0.13	MM					
					.XXX ±.051	 1:1					
				angles	0° ±2°	product family		METRAL	code	213	
				dr	T.BRUNGARD	11/19/99	size	dwg no	88903	sheet	2
				engr	M.STRAWSER	11/19/99	cage code		22526		
				chr	M.STRAWSER	11/19/99	sheet		2		
				appd	M.STRAWSER	02/29/00	sheet		2		
sheet index	revision sheet										

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X01 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	4	19	19	2	19	2	19	19
	D	2	2	2	2	2	19	19	2	19	2	19	19
	C	2	2	2	2	2	19	19	2	19	2	19	19
	B	2	2	2	2	2	19	19	2	19	2	19	19
	A	2	2	1	2	2	19	19	2	19	2	19	19
88903-X02 SEE NOTE 11 FOR LEAD FREE	E	12	25	25	25	25	25	25	25	25	25	25	25
	D	25	25	25	25	25	25	25	25	25	25	25	25
	C	25	25	23	25	25	23	25	25	25	25	25	25
	B	25	25	25	25	25	12	25	25	25	25	25	25
	A	12	25	25	25	25	25	25	25	25	25	25	25
88903-X03 SEE NOTE 11 FOR LEAD FREE	E	2	2	1	1	1	1	1	1	1	1	1	2
	D	2	2	1	1	1	1	1	1	1	1	1	2
	C	2	2	1	1	1	1	1	1	1	1	1	2
	B	2	2	1	1	1	1	1	1	1	1	1	2
	A	2	2	1	1	1	1	1	1	1	1	1	2
88903-X04 SEE NOTE 11 FOR LEAD FREE	E	7	6	6	6	6	6	6	6	6	6	6	6
	D	7	6	6	6	6	6	6	6	6	6	6	6
	C	7	6	6	6	6	6	6	6	6	6	6	6
	B	7	6	6	6	6	6	6	6	6	6	6	6
	A	7	6	6	6	6	6	6	6	6	6	6	6
88903-X05 SEE NOTE 11 FOR LEAD FREE	E	3	2	2	2	2	2	2	2	2	2	2	2
	D	3	2	2	2	2	2	2	2	2	2	2	2
	C	3	2	2	2	2	2	2	2	2	2	2	2
	B	3	2	2	2	2	2	2	2	2	2	2	2
	A	3	2	2	2	2	2	2	2	2	2	2	2
88903-X06 SEE NOTE 11 FOR LEAD FREE	E	3	2	2	2	2	2	2	1	2	2	2	2
	D	3	2	2	2	2	2	2	3	2	2	2	2
	C	3	2	2	2	2	2	2	2	2	2	2	2
	B	3	2	2	2	2	2	2	2	2	2	1	2
	A	3	2	2	2	2	2	2	2	2	2	3	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X07 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2	2	2	2	4	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	4	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
88903-X08 SEE NOTE 11 FOR LEAD FREE	E	25	25	25	25	25	25	25	25	25	25	25	25
	D	25	25	25	25	25	25	25	25	25	25	25	25
	C	25	42	25	25	25	25	25	25	25	25	25	25
	B	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
88903-X09 SEE NOTE 11 FOR LEAD FREE	E	2	2	3	2	2	3	2	2	2	4	2	2
	D	2	2	3	2	2	3	2	2	2	4	2	2
	C	2	2	3	2	2	3	2	2	2	4	2	2
	B	2	2	3	2	2	3	2	2	2	4	2	2
	A	2	2	3	2	2	3	2	2	2	4	2	2
88903-X10 SEE NOTE 11 FOR LEAD FREE	E	2	2	3	2	2	3	2	3	2	3	2	3
	D	2	2	3	2	2	3	2	3	2	3	2	3
	C	2	2	3	2	2	3	3	3	3	3	3	3
	B	2	2	3	2	2	3	1	3	2	3	2	2
	A	2	2	3	2	2	3	1	3	2	3	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X11 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	1
	C	2	2	2	2	2	2	2	2	2	2	2	1
	B	2	2	2	2	2	2	2	2	2	2	2	1
	A	2	2	2	2	2	2	2	2	2	2	2	2
88903-X12 SEE NOTE 11 FOR LEAD FREE	E	2	2	3	2	2	2	2	2	2	2	2	2
	D	2	2	3	2	2	2	2	2	2	2	2	2
	C	2	2	3	2	2	2	2	2	2	2	2	2
	B	2	2	3	2	2	2	2	2	2	2	2	2
	A	2	2	3	2	2	2	2	2	2	2	2	2
88903-X13 SEE NOTE 11 FOR LEAD FREE	E	1	2	2	2	2	2	2	2	2	2	2	2
	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
88903-X14 88903-X14LF	E	4	-	4	-	4	-	2	-	2	-	2	-
	D	-	3	-	3	-	2	-	2	-	2	-	19
	C	4	-	4	-	4	-	2	-	2	-	2	-
	B	-	3	-	3	-	2	-	2	-	2	-	19
	A	1	-	1	-	4	-	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	
U				angles	0.XX ±0.13					METRAL SIGNAL HEADER	
					.XXX ±0.051					2 MOD, 5 ROW PRESS-FIT	
				dr	0° ±2°			product family		code	
				engr	T.BRUNGARD 11/19/99	MM		METRAL		213	
				chr	M.STRAWSER 11/19/99	← MM →		size		sheet	
				appd	M.STRAWSER 02/29/00	scale		A		3	
sheet index		revision sheet									

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X15	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
-----	C	4	4	4	4	4	2	2	2	2	2	2	2
88903-X15LF	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						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X19	E	4	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
-----	C	19	2	2	19	19	2	19	2	2	2	2	2
88903-X19LF	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	4	2	2	2	19	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X16	E	2	2	2	2	2	2	2	2	2	2	4	4
	D	2	2	2	2	2	2	2	2	2	2	2	2
-----	C	2	2	2	2	2	2	19	19	19	19	19	19
88903-X16LF	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X20	E	4	2	2	2	2	2	4	2	2	2	2	2
	D	4	2	2	2	2	2	4	2	2	2	2	2
-----	C	4	2	2	2	2	2	4	2	2	2	2	2
88903-X20LF	B	4	2	2	2	2	2	4	2	2	2	2	2
	A	4	2	2	2	1	4	2	2	2	1	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X17	E	4	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
-----	C	19	2	2	2	19	19	19	2	2	2	2	2
88903-X17LF	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	4	2	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X21	E	2	2	2	2	2	2	2	2	2	4	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
-----	C	2	2	4	2	2	2	2	2	2	4	2	2
88903-X21LF	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						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X18	E	1	2	2	2	2	2	2	2	2	2	2	2
	D	1	2	2	2	2	2	2	1	1	2	2	2
-----	C	2	2	2	2	2	2	2	2	2	1	2	2
88903-X18LF	B	1	2	2	2	2	2	2	2	1	2	2	2
	A	1	2	2	2	2	2	2	1	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
88903-X22	E	2	2	2	2	2	2	2	2	2	2	2	2
	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
88903-X22LF	B	2	2	2	2	2	2	3	2	2	2	2	2
	A	2	2	2	2	2	2	3	2	2	2	2	2

mat'l code		--	tolerances unless otherwise specified		CUSTOMER			www.fciconnect.com	
ltr	ecn no.	dr	date	linear	COPY	projection		title	
U								METRAL SIGNAL HEADER	
				angles				2 MOD, 5 ROW PRESS-FIT	
				dr	T.BRUNGARD	11/19/99	product family		METRAL
				engr	M.STRAWSER	11/19/99	code		213
				chr	M.STRAWSER	11/19/99	size		dwg no
				appd	M.STRAWSER	02/29/00	A		88903
sheet index		revision sheet		scale		1:1		sheet	
								4	