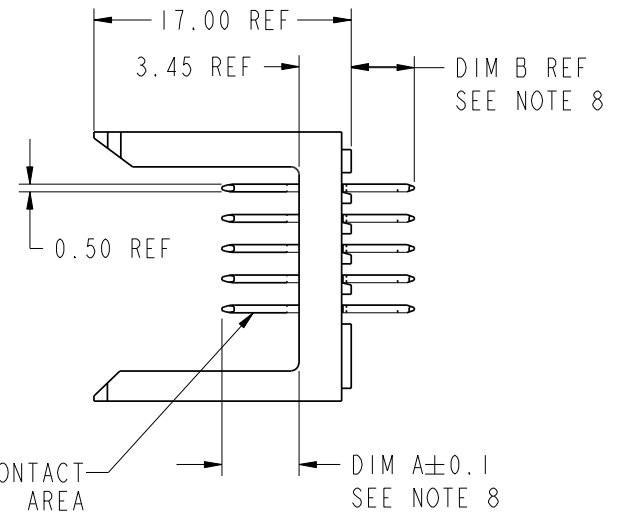
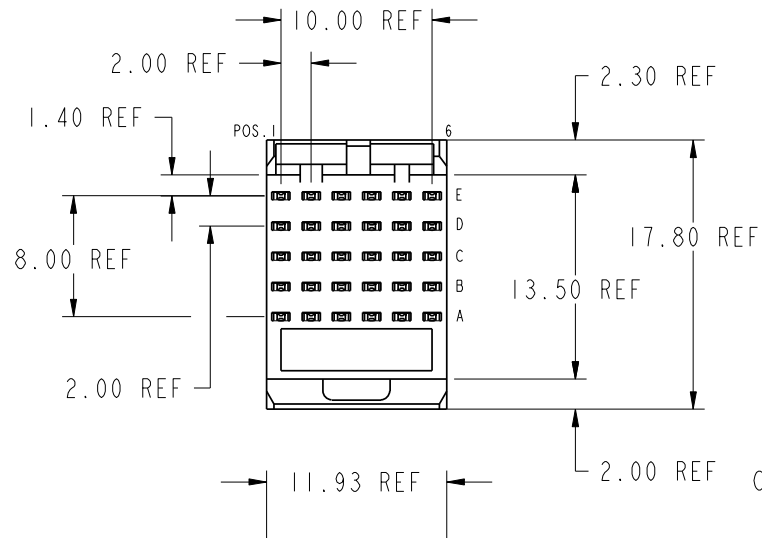


1 | 2

3 |

4

PRODUCT NUMBER
88902-XXX
88902-XXYLF



- 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:  
88902-XXX IS SnPb  
88902-XXYLF IS Sn (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
  - PRODUCT MARKING:  
PART NUMBER DESIGNATION J & 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: XXXXX-XXP OR XXXXX-XXPLF
  - PRODUCT SPECIFICATION: GS-12-180  
APPLICATION SPECIFICATION: BUS-20-073
  - AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
  - Ayy 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: 88902-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
-N1YY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-N1YYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2YYLF	TELECOM CLASS	SEE NOTE 10
-5YYLF	TELCORDIA UE	SEE NOTE 10

mat'l code				SEE NOTES				tolerances unless otherwise specified			
ltr	ecn no.	dr	date	linear	0.X ± 0.3	projection	title	product family	code	sheet	index
X	DG09-0256	TER	2009-08-19	linear	0.XX ± 0.13	projection	METRAL SIGNAL HEADER	METRAL	213	1	1
Y	DG09-0306	TER	2009-09-14	linear	.XXX ± 0.051	projection	1 MOD, 5 ROW PRESS-FIT	METRAL	213	1	1
AA	DG09-0366	TER	2009-11-24	angles	0° ± 2°	projection		METRAL	213	1	1
AB	DG10-0165	TER	2010-05-05	dr	T.BRUNGARD 11/19/99	projection		METRAL	213	1	1
AC	DG10-0243	TER	2010-06-28	enrg	M. STRAWSER 11/19/99	projection		METRAL	213	1	1
-	-	-	-	chr	M. STRAWSER 11/19/99	projection		METRAL	213	1	1
W	DG09-0169	TER	2009-05-25	appd	M. STRAWSER 02/29/00	projection		METRAL	213	1	1
sheet index	revision sheet	AC	AC	AC	AC						
		1	2	3	4						

CUSTOMER		FCI	
COPY		www.fciconnect.com	
projection	title	product family	code
MM	METRAL SIGNAL HEADER	METRAL	213
scale	size	dwg no	sheet
2:1	A	88902	1 of 4



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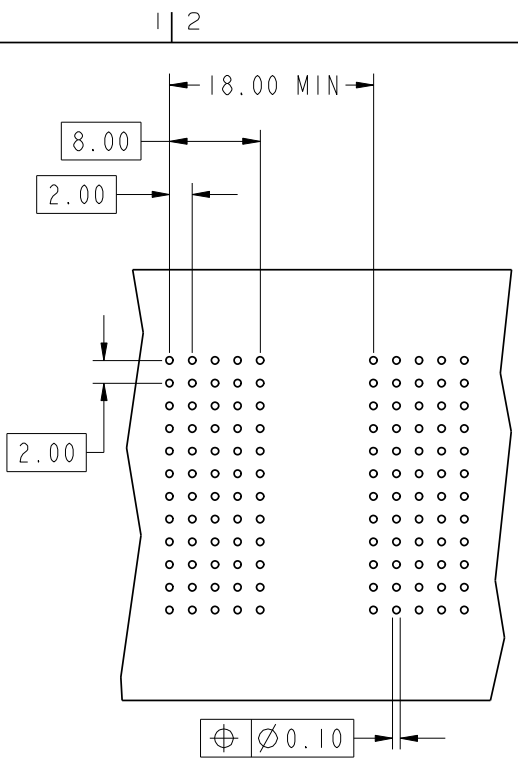
1 | 2

Pro/E

PDM: Rev:AC

STATUS Released

Printed: Jul 01, 2010



KEY (SIGNAL PRESS-FIT)		
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
19	8.00	4.30
20	8.00	13.60
39	8.00	14.10
54	5.00	11.55
55	5.75	11.55
57	7.25	11.55

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

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mol'l code				tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com			
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		 projection	title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT		
AC					0.XX ±0.13	MM				product family METRAL	code 213
					.XXX ±.051	3:2					
				angles	0° ±2°	scale		88902			
				dr	T. BRUNGARD 11/19/99						
				enr	M. STRAWSER 11/19/99						
				chr	M. STRAWSER 11/19/99						
				appd	M. STRAWSER 02/29/00						
sheet index	revision sheet										

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X01 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	19	19
	D	2	2	2	2	19	19
	C	2	1	2	3	2	2
	B	2	2	2	2	19	19
	A	2	2	2	2	19	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X06 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	4	2	2
	D	2	2	2	4	2	2
	C	2	2	2	4	2	2
	B	2	2	2	4	2	2
	A	2	2	2	4	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X11 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	1	2	1
	D	2	2	2	2	2	2
	C	2	2	2	1	2	1
	B	2	2	2	2	2	2
	A	2	2	2	1	2	1

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X16 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	3	2
	D	2	2	2	2	2	2
	C	3	2	4	2	2	4
	B	2	2	2	2	2	2
	A	2	4	2	2	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X21 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	19	2	19	2	2
	A	2	19	2	19	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X02 SEE NOTE 11 FOR LEAD FREE	E	6	6	6	6	20	20
	D	6	6	6	6	20	20
	C	6	5	6	7	6	6
	B	6	6	6	6	20	20
	A	6	6	6	6	20	20

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X07 SEE NOTE 11 FOR LEAD FREE	E	57	55	55	55	55	55
	D	57	55	55	55	55	55
	C	57	55	55	55	55	55
	B	57	55	55	55	55	55
	A	57	55	55	55	54	57

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X12 SEE NOTE 11 FOR LEAD FREE	E	6	6	6	5	6	5
	D	6	6	6	6	6	6
	C	6	6	6	5	6	5
	B	6	6	6	6	6	6
	A	6	6	6	5	6	5

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X17 SEE NOTE 11 FOR LEAD FREE	E	4	-	2	-	2	-
	D	-	2	-	2	-	2
	C	2	-	4	-	4	-
	B	-	2	-	1	-	2
	A	2	-	1	-	2	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X22 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	4	2	2	2	2	2
	B	2	2	2	2	19	19
	A	1	2	2	2	19	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X03 SEE NOTE 11 FOR LEAD FREE	E	5	3	3	3	3	3
	D	5	3	3	3	3	3
	C	5	3	3	3	3	3
	B	5	3	3	3	3	3
	A	5	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X08 SEE NOTE 11 FOR LEAD FREE	E	3	2	2	2	2	2
	D	3	2	2	2	2	2
	C	3	2	2	2	2	2
	B	3	2	2	2	2	2
	A	3	1	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X13 SEE NOTE 11 FOR LEAD FREE	E	2	-	2	-	2	-
	D	-	2	-	2	-	2
	C	2	-	2	-	2	-
	B	-	2	-	2	-	2
	A	2	-	2	-	2	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X18 SEE NOTE 11 FOR LEAD FREE	E	2	-	2	-	2	-
	D	-	2	-	2	-	2
	C	2	-	4	-	4	-
	B	-	2	-	2	-	2
	A	2	-	2	-	2	-

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X23 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	19	2	2	2	2	2
	B	1	2	2	2	2	2
	A	19	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X04 SEE NOTE 11 FOR LEAD FREE	E	7	6	6	6	6	6
	D	7	6	6	6	6	6
	C	7	6	6	6	6	6
	B	7	6	6	6	6	6
	A	7	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X09 SEE NOTE 11 FOR LEAD FREE	E	39	39	39	39	39	39
	D	39	39	39	39	39	39
	C	39	39	39	39	39	39
	B	39	39	39	39	39	39
	A	39	39	39	39	39	39

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X14 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	19	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
88902-X19 SEE NOTE 11 FOR LEAD FREE	E	6	6	6	6	6	6
	D	6	6	6	6	6	6
	C	8	6	6	6	6	6
	B	6	6	6	6	20	20
	A	5	6	6	6	20	20

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X24 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	2	4
	B	19	19	2	2	2	2
	A	19	19	2	2	2	2


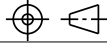


METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X05 SEE NOTE 11 FOR LEAD FREE	E	3	3	2	4	4	19
	D	3	3	2	4	4	19
	C	3	3	2	4	4	19
	B	3	3	2	4	4	19
	A	3	3	2	4	4	19

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X10 SEE NOTE 11 FOR LEAD FREE	E	4	2	2	2	2	2
	D	4	2	2	2	2	2
	C	4	2	2	2	1	4
	B	4	2	2	2	2	2
	A	4	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X15 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	3	2	4	2	2	4
	B	2	2	2	2	2	2
	A	2	4	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X20 SEE NOTE 11 FOR LEAD FREE	E	6	6	6	6	6	6
	D	6	6	6	6	6	6
	C	6	6	6	6	6	8
	B	20	20	6	6	6	6
	A	20	20	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
88902-X25 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	19
	D	2	2	2	2	2	19
	C	2	2	2	2	2	19
	B	2	2	2	2	2	19
	A	2	2	2	2	2	19

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
lir	ecn no.	dr	date	linear	0.X ±0.3	COPY		title	
AC					0.XX ±0.13	projection		METRAL SIGNAL HEADER	
					.XXX ±.051			1 MOD, 5 ROW PRESS-FIT	
				angles	0° ±2°			product family	
				dr	T. BRUNGARD 11/19/99	MM		METRAL	
				enr	M. STRAWSER 11/19/99			code	
				chr	M. STRAWSER 11/19/99	scale		213	
				appd	M. STRAWSER 02/29/00	1:1		sheet	
sheet index	revision sheet					A		88902	
								3	

METRAL P/N	ROW	CONTACT CODE MOD. 1					
		1	2	3	4	5	6
88902-X26 SEE NOTE 11 FOR LEAD FREE	E	1	2	2	2	2	1
	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	2	2	2	2
	A	1	2	2	2	2	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					
		1	2	3	4	5	6
88902-X27 SEE NOTE 11 FOR LEAD FREE	E	5	5	5	1	1	1
	D	5	5	5	1	1	1
	C	5	5	5	1	1	1
	B	5	5	5	1	1	1
	A	5	5	5	1	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					
		1	2	3	4	5	6
88902-X28 SEE NOTE 11 FOR LEAD FREE	E	19	2	19	2	2	1
	D	2	19	2	19	19	2
	C	19	2	19	2	2	19
	B	2	19	2	19	19	2
	A	19	2	19	2	2	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					
		1	2	3	4	5	6
88902-X29 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	1	2	2	2
	A	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					
		1	2	3	4	5	6
88902-X30 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	1	2	4
	D	2	2	2	2	2	2
	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. 1					
		1	2	3	4	5	6
88902-X31 SEE NOTE 11 FOR LEAD FREE	E	4	2	3	3	2	4
	D	4	2	3	3	2	4
	C	4	2	3	3	2	4
	B	4	2	3	3	2	4
	A	4	2	3	3	2	4



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mat'l code				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com	
lir	ecm no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL HEADER 1 MOD, 5 ROW PRESS-FIT
AC					0.XX ±0.13				
				angles	.XXX ±.051			product family METRAL	code 213
					0° ±2°				
				dr	T. BRUNGARD 11/19/99	size		dwg no 88902	sheet 4
				enr	M. STRAWSER 11/19/99	A			
				chr	M. STRAWSER 11/19/99	scale			
				appd	M. STRAWSER 02/29/00	1:1			
sheet index	revision sheet								