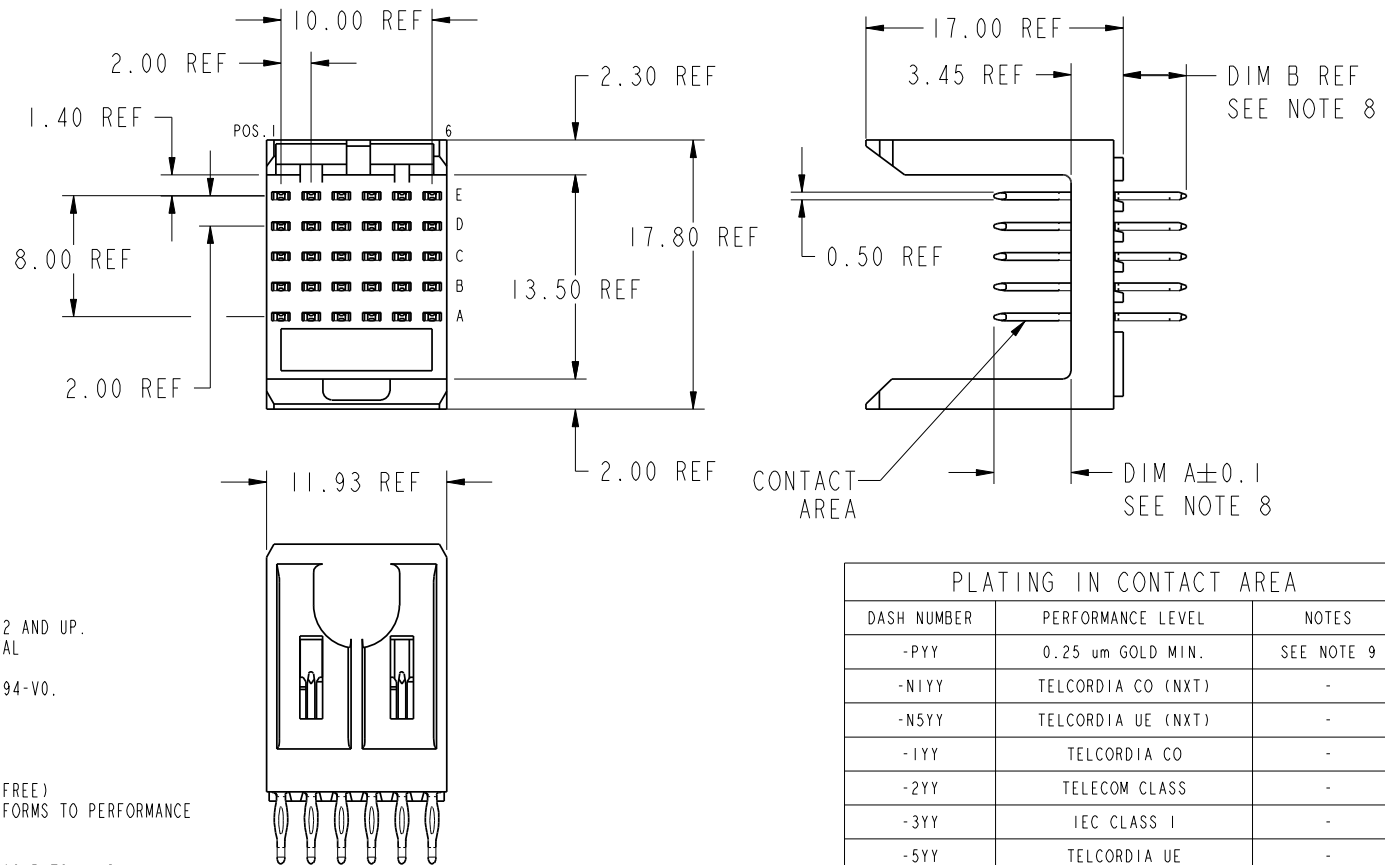


PRODUCT NUMBER

88902-XXX

88902-XXYLF



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:
88902-XXX IS SnPb
88902-XXYLF IS Sn (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE BELOW.
5. PRODUCT MARKING:
PART NUMBER DESIGNATION J & BATCH I.D.
6. 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-XXXP OR XXXXX-XXXP LF
7. PRODUCT SPECIFICATION: GS-12-180
APPLICATION SPECIFICATION: BUS-20-073
8. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
9. -Ayy 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.
11. FOR LEAD FREE PART NUMBERS, ADD AN 'LF' SUFFIX. EXAMPLE: 88902-X01LF.
12. 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 I	-
-5YY	TELCORDIA UE	-
-NIYYLF	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

MATERIAL CODE				SEE NOTES		TOLERANCES UNLESS OTHERWISE SPECIFIED		CUSTOMER		FCI	
lir	ecn no.	dr	date	linear	angles	dr	engr	chr	appd	COPY	projection
X	DG09-0256	TER	2009-08-19	0.X ±0.3	0° ±2°	T.BRUNGARD	11/19/99	M.STRAWSE	11/19/99	projection	title
Y	DG09-0306	TER	2009-09-14	0.XX ±0.13	0° ±2°	M.STRAWSE	11/19/99	M.STRAWSE	11/19/99	projection	title
AA	DG09-0366	TER	2009-11-24	.XXX ±0.051	0° ±2°	M.STRAWSE	11/19/99	M.STRAWSE	11/19/99	projection	title
AB	DG10-0165	TER	2010-05-05	0° ±2°	0° ±2°	M.STRAWSE	11/19/99	M.STRAWSE	11/19/99	projection	title
AC	DG10-0243	TER	2010-06-28	0° ±2°	0° ±2°	M.STRAWSE	11/19/99	M.STRAWSE	11/19/99	projection	title
W	DG09-0169	TER	2009-05-25	0° ±2°	0° ±2°	M.STRAWSE	02/29/00	M.STRAWSE	02/29/00	projection	title
sheet index	revision sheet	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC
1	2	3	4								

CUSTOMER

COPY

projection

MM

scale

2:1



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title
METRAL SIGNAL HEADER
1 MOD, 5 ROW PRESS-FITproduct family
METRALsize
Adwg no
88902code
213sheet
1 of 4

cage code 28506

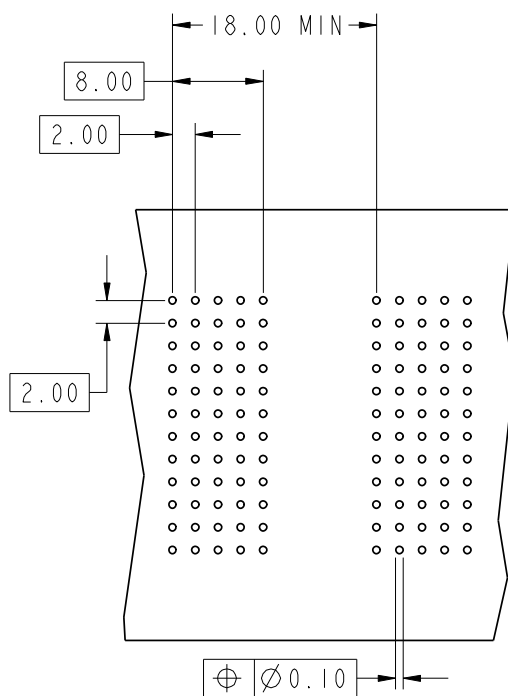
STATUS Released

Printed: Jul 01, 2010

1 | 2

3 |

4



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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mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI	
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AC					0.XX ±0.13				
					.XXX ±0.051				
				angles	0° ±2°	MM	scale	product family	METRAL
				dr	T. BRUNGARD 11/19/99				
				enr	M. STRAWSER 11/19/99				
				chr	M. STRAWSER 11/19/99	A	size	dwg no	213
				appd	M. STRAWSER 02/29/00				
sheet	revision								
index	sheet								

A

A

B

B

1 | 2

Pro/E

PDM: Rev:AC

STATUS Released

Printed: Jul 01, 2010



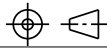
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88902-X01 SEE NOTE 11 FOR LEAD FREE	E	2	2	2	2	1919
	D	2	2	2	2	1919
	C	2	1	2	3	2 2
	B	2	2	2	2	1919
	A	2	2	2	2	1919
88902-X02 SEE NOTE 11 FOR LEAD FREE	E	6	6	6	6	2020
	D	6	6	6	6	2020
	C	6	5	6	7	6 6
	B	6	6	6	6	2020
	A	6	6	6	6	2020
88902-X03 SEE NOTE 11 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
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
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
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
88902-X07 SEE NOTE 11 FOR LEAD FREE	E	57	55	55	55	5555
	D	57	55	55	55	5555
	C	57	55	55	55	5555
	B	57	55	55	55	5555
	A	57	55	55	55	5457
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
88902-X09 SEE NOTE 11 FOR LEAD FREE	E	39	39	39	39	3939
	D	39	39	39	39	3939
	C	39	39	39	39	3939
	B	39	39	39	39	3939
	A	39	39	39	39	3939
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
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
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
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 -
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
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
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
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 -
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 -
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	2020
	A	5	6	6	6	2020
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
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
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	1919
	A	1	2	2	2	1919
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
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
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

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sheet	revision							213	
index	sheet							3	

METRAL P/N	ROW	CONTACT CODE MOD. I					
		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. I					
		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. I					
		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. I					
		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. I					
		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. I					
		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



mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI	
lfr	ecn no.	dr	date	linear	0.X $\pm$ 0.3	projection	COPY	www.fciconnect.com	
AC					0.XX $\pm$ 0.13				
					.XXX $\pm$.051				
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				dr	T. BRUNGARD 11/19/99				
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				chr	M. STRAWSER 11/19/99	1:1	A	size 88902	sheet 213
				appd	M. STRAWSER 02/29/00				
sheet index	revision sheet								

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