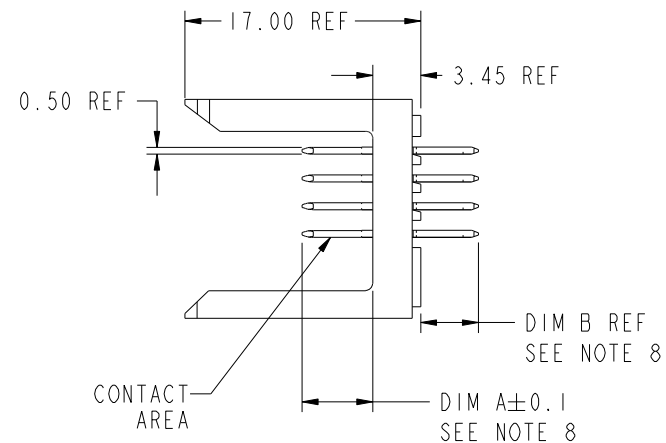
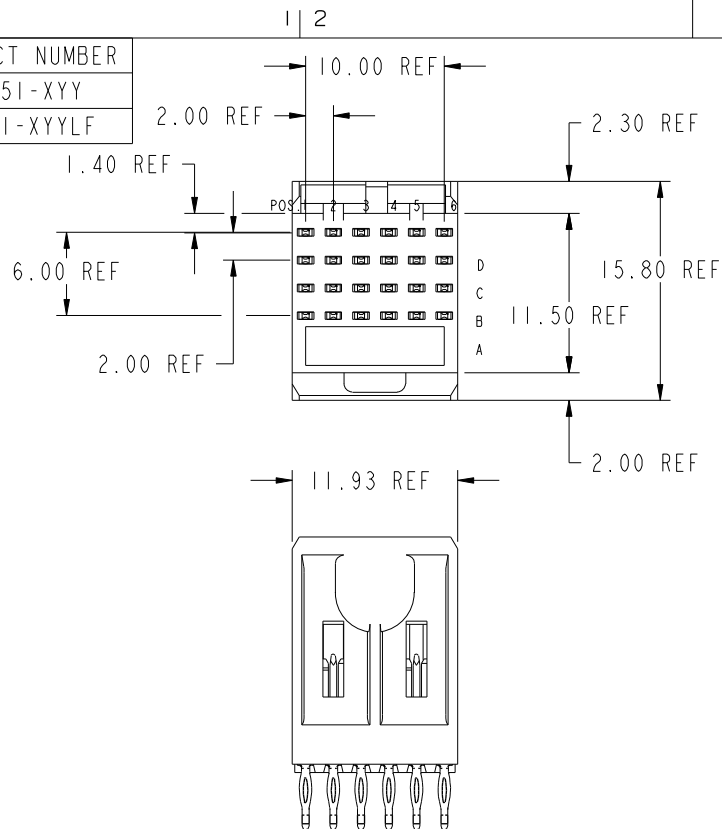




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PRODUCT NUMBER
85851-YYY
85851-YYLFF



PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-YYY	TELCORDIA CO	SEE NOTE 9
-NIYY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-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

SEE NOTES				Tolerances unless otherwise specified		CUSTOMER		FCI	
ltr	ecn no.	dr	date		0.X ±0.3	COPY		www.fciconnect.com	
AA	V06-0569	DCH	2006-06-13	linear	0.XX ±0.13	projection		title	METRAL SIGNAL HEADER
AB	V07-0206	DCH	2007-03-06		.XXX ±.051				I MOD, 4 ROW PRESS-FIT
AC	DG10-0165	TER	2010-05-05	angles	0° ±2°			product family	METRAL
-	-	-	-	dr	T.BRUNGARD 11/19/99			size	213
W	V04-1216	HTB	12/23/04	enr	M.STRAWER 11/19/99			dwg no	85851
X	V05-0099	HTB	01/27/05	chr	M.STRAWER 11/19/99			scale	2:1
Y	V05-0367	DAI	05/25/05	appd	M.STRAWER 02/29/00				
sheet index	revision sheet	AC	AC	AC	AC				
		1	2	3	4				



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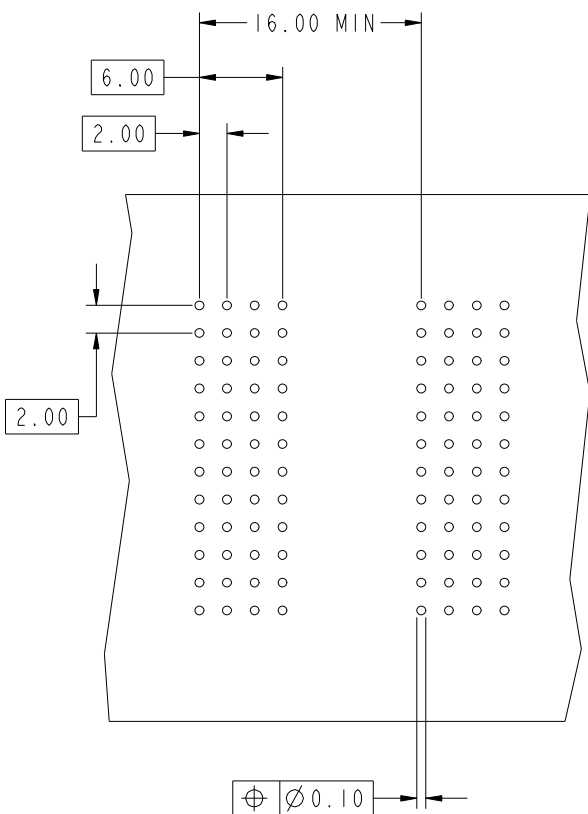
A

B

1 | 2

3 |

4



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

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
12	7.25	17.00
13	8.25	4.30
19	8.00	4.30
20	8.00	13.60
23	8.00	17.70
24	6.50	16.30
25	5.75	15.60
26	5.00	14.90
40	5.00	15.60
41	6.50	15.60
59	5.00	11.80
60	5.75	11.80
61	6.50	11.80

A

B

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



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METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X01 SEE NOTE 11 LEAD FREE OPTION	D	12	25	23	23	23	25	
	C	12	25	23	23	23	25	
	B	12	25	23	23	23	25	
	A	12	25	23	23	23	25	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X07 SEE NOTE 11 LEAD FREE OPTION	D	59	59	59	59	59	59	
	C	60	60	60	60	60	60	
	B	60	60	60	60	60	60	
	A	61	61	61	61	61	61	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X13 SEE NOTE 11 LEAD FREE OPTION	D	26	23	25	23	12	12	
	C	23	23	25	23	12	12	
	B	24	23	25	23	12	12	
	A	23	23	25	23	12	12	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X18 SEE NOTE 11 LEAD FREE OPTION	D	19	2	2	2	2	2	
	C	19	2	2	2	2	2	
	B	19	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
85851-X23 SEE NOTE 11 LEAD FREE OPTION	D	8	8	6	7	7	6	
	C	8	8	6	7	7	6	
	B	8	8	6	7	7	6	
	A	8	8	6	7	7	6	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X02 SEE NOTE 11 LEAD FREE OPTION	D	26	12	12	12	12	23	
	C	23	12	12	12	12	23	
	B	24	12	12	12	12	23	
	A	24	12	12	12	12	23	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X08 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	
	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
85851-X14 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	3	4	3	
	C	2	2	2	3	4	3	
	B	2	2	2	3	4	3	
	A	2	2	2	3	4	3	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X19 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	
	C	1	1	1	1	1	1	
	B	3	1	1	1	3	1	
	A	1	1	1	1	1	1	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X24 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	2	2	2	
	C	2	2	2	2	2	2	
	B	2	2	2	2	2	2	
	A	4	4	4	2	2	2	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X03 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	
	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
85851-X09 SEE NOTE 11 LEAD FREE OPTION	D	40	40	40	40	41	41	
	C	40	40	40	40	40	40	
	B	40	40	40	40	40	40	
	A	40	40	40	40	40	40	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X15 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	
	C	1	1	1	1	1	1	
	B	1	1	1	1	3	3	
	A	1	1	1	1	1	1	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X20 SEE NOTE 11 LEAD FREE OPTION	D	4	3	4	2	2	2	
	C	4	3	4	2	2	2	
	B	4	3	4	2	2	2	
	A	4	3	4	2	2	2	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X25 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	4	2	2	
	C	2	2	2	2	2	2	
	B	2	2	2	2	2	2	
	A	2	2	2	4	2	2	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X04 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	-	-	-	
	C	19	19	19	-	-	-	
	B	19	19	19	-	-	19	
	A	19	19	19	-	-	19	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X10 SEE NOTE 11 LEAD FREE OPTION	D	61	61	61	61	61	61	
	C	20	20	61	61	61	61	
	B	61	61	61	61	61	61	
	A	61	61	61	61	61	61	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X16 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	5	6	6	
	C	6	6	6	8	6	6	
	B	6	6	6	6	6	6	
	A	6	6	6	6	6	6	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X21 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	
	C	3	3	3	3	3	3	
	B	3	3	3	3	3	3	
	A	1	3	3	3	3	3	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X05 SEE NOTE 11 LEAD FREE OPTION	D	4	1	4	1	1	1	
	C	4	1	1	1	1	1	
	B	4	1	1	1	1	1	
	A	4	1	4	1	1	1	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X11 SEE NOTE 11 LEAD FREE OPTION	D	61	61	61	61	61	61	
	C	61	61	61	61	61	61	
	B	61	61	61	61	61	61	
	A	61	61	61	61	20	20	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X17 SEE NOTE 11 LEAD FREE OPTION	D	20	6	6	6	6	6	
	C	20	6	6	6	6	6	
	B	20	6	6	6	6	6	
	A	20	6	6	6	6	6	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X22 SEE NOTE 11 LEAD FREE OPTION	D	4	4	2	3	3	2	
	C	4	4	2	3	3	2	
	B	4	4	2	3	3	2	
	A	4	4	2	3	3	2	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X26 SEE NOTE 11 LEAD FREE OPTION	D	7	7	6	8	8	20	
	C	7	7	6	8	8	20	
	B	7	7	6	8	8	20	
	A	7	7	6	8	8	20	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X06 SEE NOTE 11 LEAD FREE OPTION	D	59	59	59	59	59	59	
	C	60	60	60	60	60	60	
	B	60	60	60	60	60	60	
	A	60	60	60	60	60	60	

METRAL P/N		ROW	CONTACT CODE MOD. I					
			1	2	3	4	5	6
85851-X12 SEE NOTE 11 LEAD FREE OPTION	D	61	61	61	61	20	20	
	C	61	61	61	61	61	61	
	B	61	61	61	61	61	61	
	A	61	61	61	61	61	61	

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
AC					0.XX ±0.13					METRAL SIGNAL HEADER	
				angles	.XXX ±.051					I MOD, 4 ROW PRESS-FIT	
					0° ±2°						
				dr	T.BRUNGARD	11/19/99				product family	
				engr	M.STRAWSE	11/19/99				METRAL	
				chr	M.STRAWSE	11/19/99				size	
				appd	M.STRAWSE	02/29/00				dwg no	
								MM		A	
								scale		85851	
								1:1		213	
sheet index				revision						sheet	
										3	



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METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85851-X28 SEE NOTE 11 LEAD FREE OPTION	D	1	1	20	5	5	5
	C	1	1	20	5	5	5
	B	1	1	20	5	5	5
	A	1	1	20	5	5	5
METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85851-X29 SEE NOTE 11 LEAD FREE OPTION	D	3	3	4	4	3	3
	C	3	3	3	3	1	3
	B	3	3	3	3	3	3
	A	13	13	13	13	13	13
METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85851-X30 SEE NOTE 11 LEAD FREE OPTION	D	1	1	3	1	1	1
	C	1	1	3	1	1	1
	B	1	1	1	1	1	3
	A	1	1	1	1	1	3
METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2	3	4	5	6
85851-X31 SEE NOTE 11 LEAD FREE OPTION	D	2	2	19	2	19	2
	C	2	2	19	2	19	2
	B	2	1	19	2	19	2
	A	2	2	19	2	19	2



1 | 2

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:
85851-XXX IS SnPb
85851-XXYLF 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-XXXPFLF
- 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: 85851-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.

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI			
---						COPY		www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection		title METRAL SIGNAL HEADER 1 MOD, 4 ROW PRESS-FIT			
AC					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°	MIM		product family		METRAL	
				dr	T.BRUNGARD 11/19/99			size	dwg no	code	
				engr	M.STRAWER 11/19/99					213	
				chr	M.STRAWER 11/19/99					sheet	
				appd	M.STRAWER 02/29/00	scale	1:1	A	85851	4	
sheet	revision										
index	sheet										

1 | 2

Pro/E

3 |

cage code 22526

4

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