

Excellent Integrated System Limited

Stocking Distributor

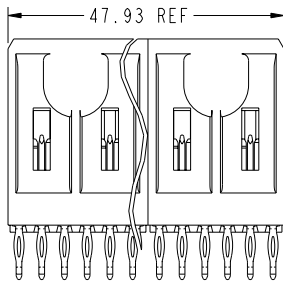
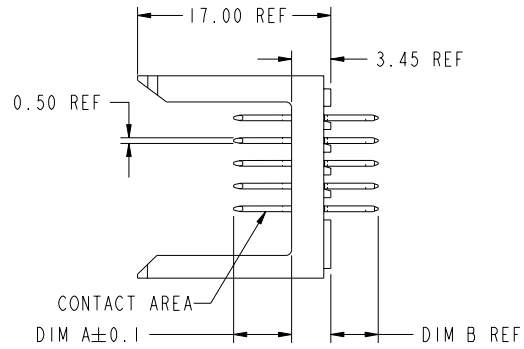
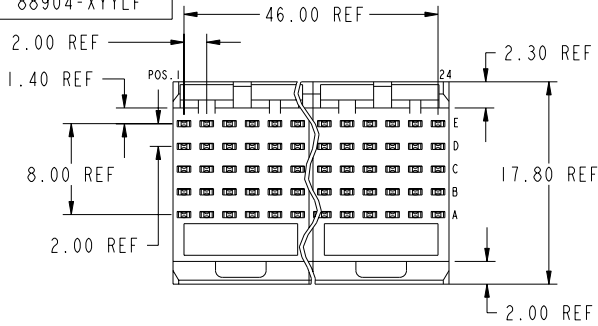
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[FCI](#)
[88904-102](#)

For any questions, you can email us directly:

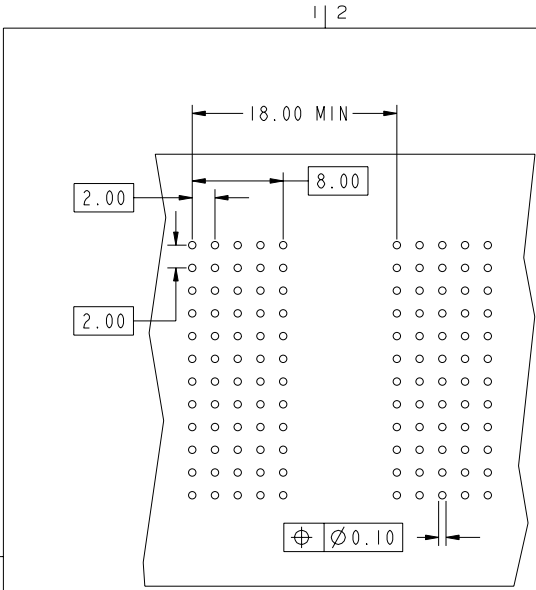
sales@integrated-circuit.com

PRODUCT NUMBER
88904-XXX
88904-XXYLF



mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI	
lir	ecm no.	dr	date	linear	0.X ± 0.3	COPY		www.fciconnect.com	
K	V06-0569	DCH	2006-06-13		0.XX ± 0.13	projection		title	
L	V06-0984	DCH	2006-09-29		.XXX ± .051	⊕		METRAL SIGNAL HEADER	
-	-	-	-	angles	0° ± 2°	MM		4 MOD, 5 ROW PRESS-FIT	
F	V05-0966	DAI	10/18/05	dr	T.BRUNGARD 11/19/99	←		product family	METRAL
G	V05-1064	LP	11/22/05	eng	M.STRAWER 11/19/99	MM		size	dwg no
H	V05-1099	LP	12/07/05	chr	M.STRAWER 11/19/99	←		scale	2:1
J	V05-1125	LP	12/19/05	appd	M.STRAWER 02/29/00	←		A	88904
sheet index	revision sheet	L	L	L	L	L	L		
		1	2	3	4	5			

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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
19	8.00	4.30

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

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	COPY		title			
L				linear	0.XX ± 0.13	projection		METRAL SIGNAL HEADER			
				angles	.XXX ± .051			4 MOD, 5 ROW PRESS-FIT			
				angles	0° ± 2°			product family		METRAL	
				dr	T. BRUNGARD 11/19/99	scale		size		code	
				eng	M. STRAWSER 11/19/99	1:1		dwg no		213	
				chr	M. STRAWSER 11/19/99	A		88904		sheet	
				appd	M. STRAWSER 02/29/00					2	
sheet index	revision sheet										

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REV E - 2006-04-18

METRAL P/N	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X01 SEE NOTE 9 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	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	2	2	2	2	2	2	2	2	2	2	2
	C	1	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
	A	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	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X02 SEE NOTE 9 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	C	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	
	A	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

METRAL P/N	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X03 SEE NOTE 9 LEAD FREE OPTION	E	4	2	3	3	2	3	2	3	2	4	4	4	4	2	2	2	2	2	2	2	2	2	
	D	4	2	3	3	2	3	2	3	2	4	4	4	4	2	2	2	2	2	2	2	2	2	
	C	4	2	3	3	2	3	2	3	2	4	4	4	4	2	2	2	2	2	2	2	2	2	
	B	4	2	3	3	2	3	2	3	2	4	4	4	4	2	2	2	2	2	2	2	2	2	
	A	4	2	3	3	2	3	2	3	2	4	4	4	4	2	2	2	2	2	2	2	2	2	

METRAL P/N	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X04 SEE NOTE 9 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	D	1	1	1	1	1	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	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	
	A	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	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X05 SEE NOTE 9 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	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	2	2	2	2	2	2	2	2	2	2	
	C	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	B	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	

METRAL P/N	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X06 SEE NOTE 9 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	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	2	2	2	2	2	2	2	2	2	2	
	C	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	1	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	
	A	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	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X07 SEE NOTE 9 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	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	2	2	2	2	2	2	2	2	2	2	
	C	1	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	
	A	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	CONTACT CODE MOD. 1					MOD. 2					MOD. 3					MOD. 4								
	ROW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
88904-X08 SEE NOTE 9 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	D	1	1	1	1	1	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	1	1	1	1	1	1	3	3	3	3
	B	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	

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ± 0.3	COPY		title		METRAL SIGNAL HEADER	
L				linear	0.XX ± 0.13	projection		4 MOD. 5 ROW PRESS-FIT		code	
				angles	.XXX ± .051			product family		METRAL	
				angles	0° ± 2°			size		213	
				dr	T. BRUNGARD 11/19/99	scale		A		sheet	
				engr	M. STRAWSER 11/19/99	1:1		88904		3	
				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. 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	
88904-X09 SEE NOTE 9 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	2	3	1	2	1	2	2	2	2	2	2	2	3
	D	2	2	2	2	2	2	2	2	2	2	2	2	2	3	1	2	2	2	2	2	2	2	2	2	3
	C	2	2	2	2	2	2	2	2	2	2	2	2	2	3	1	2	2	3	1	2	2	2	2	2	3
	B	2	2	2	2	2	2	2	2	2	2	2	2	2	3	1	2	2	2	2	2	2	2	2	2	3
	A	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	3
88904-X10 SEE NOTE 9 LEAD FREE OPTION	E	3	2	3	2	2	2	2	2	2	2	2	2	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	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	1	
	B	1	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	
88904-X11 SEE NOTE 9 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	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	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	A	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	

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CONFIDENTIAL											
mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	0.X ±0.3				COPY		title	
L				0.XX ±0.13				projection		METRAL SIGNAL HEADER	
				.XXX ±.051						4 MOD, 5 ROW PRESS-FIT	
				0° ±2°						product family	
				dr T. BRUNGARD 11/19/99				MM		METRAL	
				engr M. STRAWSER 11/19/99				size		code	
				chr M. STRAWSER 11/19/99				scale		213	
				appd M. STRAWSER 02/29/00				1:1		sheet	
sheet index	revision sheet							A		4	
								88904		4	

PRODUCT NUMBER
88904-XXX
88904-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:
88904-XXX IS SnPb
88904-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-XXP OR XXXX-XXXPL
- PRODUCT SPECIFICATION: GS-12-180
APPLICATION SPECIFICATION: BUS-20-073
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN "LF" MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

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. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 88904-XO1LF

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-PYY	0.25 um GOLD MIN.	-
-N1YY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-N1YYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 8
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 8
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 8
-2YYLF	TELECOM CLASS	SEE NOTE 8
-5YYLF	TELCORDIA UE	SEE NOTE 8

mat'l code		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	0.X ± 0.3	COPY				
L				linear 0.XX ± 0.13	projection	title METRAL SIGNAL HEADER			
				angles .XXX ± .051	0° ± 2°	4 MOD, 5 ROW PRESS-FIT			
				dr T. BRUNGARD 11/19/99	MM	product family	METRAL	code	213
				eng M. STRAWSER 11/19/99	scale	size	dwg no	sheet	5
				chr M. STRAWSER 11/19/99	1:1	A	88904		
				appd M. STRAWSER 02/29/00					
sheet index	revision sheet								

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