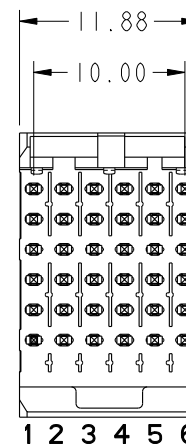
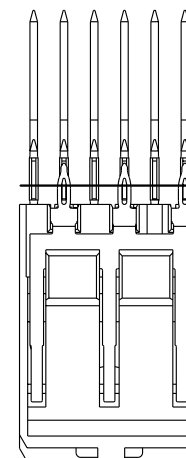
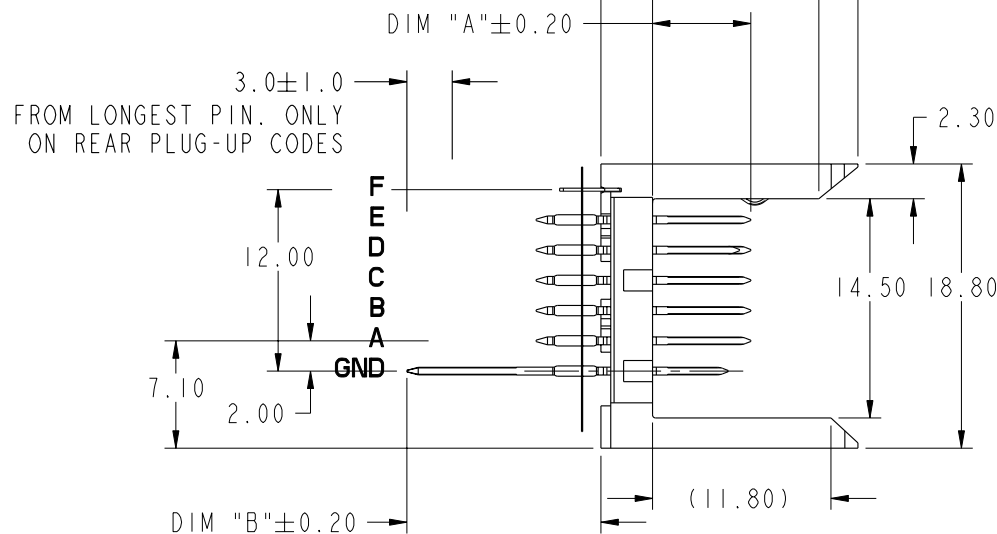
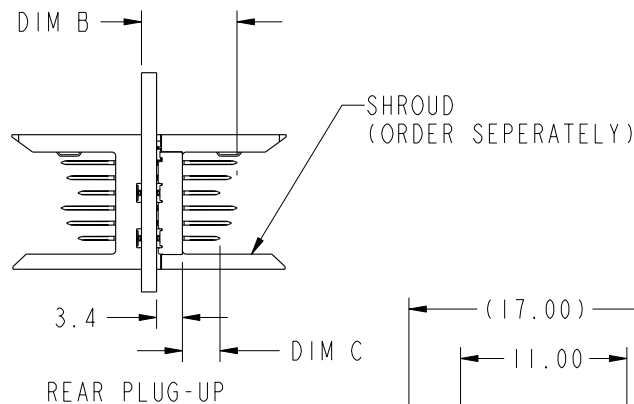
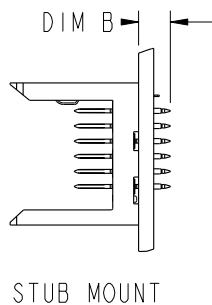






PRODUCT NUMBER
98122-XYX
98122-XYXLF



mat'l code				tolerances unless otherwise specified				CUSTOMER		FCi www.fciconnect.com		
ltr	ecn no.	dr	date	linear	.XX ± .01				COPY	projection 	title HEADER ASS'Y STR. P.F. EXT. 5-ROW	
J	V06-0573	DCH	2006-06-14		.XXX ± .005							
-	-	-	-		.XXXX ± .0020							
D	V11731	SAK	06/20/01	angles	0° ± 2°				MM 	scale 1:1	product family METRAL 1000	code 213
E	V03-0043	VS	5/9/03	dr	E. KROPER.	1/25/01						
F	V03-1156	TAB	11/14/03	enrg	J. VOLSTORF	6/13/01						
G	V04-0399	DAI	05/24/04	chr	J. VOLSTORF	1/25/01		A	98122	sheet 1 of 6		
H	V05-0806	VS	9/21/05	appd	J. VOLSTORF	1/25/01						
sheet index	revision sheet	J 1	J 2	J 3	J 4	J 5	J 6					



INFORMATION FOR MATING WITH 84854 METRAL 1000 RECEPTACLES

PIN CODES

		DIM B								
		4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
DIM A	5.00	1*	22	30	5	35	48	40	65	9
	5.75	2*	44	31	6	36	49	25	66	10
	6.50	3*	45	32	7	37	50	41	24	11
	7.25	4*	46	33	8	38	51	42	67	12
	8.00	19*	47	34	20	39	52	43	68	21

RESTRICTION ON CURCUIT BOARD THICKNESS RANGE FOR PIN POSITIONS A, B, C, D & E

		DIM B								
		4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
MIN THICKNESS		1.60	2.95	2.95	2.95	3.05	3.80	4.30	5.00	5.70
MAX THICKNESS		NONE	3.80	4.55	5.30	6.05	6.80	7.30	8.00	8.70

RESTRICTION ON CURCUIT BOARD THICKNESS RANGE FOR PIN POSITION 'GND' **

		DIM B								
		4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
MIN THICKNESS		1.60	2.95	3.25	4.00	4.75	5.50	6.00	6.70	7.40
MAX THICKNESS		NONE	4.20	4.95	5.70	6.45	7.20	7.70	8.40	9.10

- * STUB PINS - NO REAR PLUG-UP
- ** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

mat'l code				tolerances unless otherwise specified				CUSTOMER		www.fciconnect.com			
ltr	ecn no.	dr	date	linear	.XX ±.01			COPY			title HEADER ASS'Y STR. P.F. EXT. 5-ROW		
J	-	-	-		.XXX ±.005			projection					
					.XXX ±.0020								
				angles	0° ±2°								
				dr	E. KROPER.	1/25/01	scale 1:1		product family METRAL 1000		code 213		
				enrg	J. VOLSTORF	6/13/01							
				chr	J. VOLSTORF	1/25/01							
				appd	J. VOLSTORF	1/25/01							
sheet index		revision sheet											

cage code 22526



INFORMATION FOR MATING WITH 52062 METRAL 4000 RECEPTACLES

PIN CODES

		DIM B								
		4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
DIM A	5.00	1*	22	30	5	35	48	40	65	9
	5.75	2*	44	31	6	36	49	25	66	10
	6.50	3*	45	32	7	37	50	41	24	11
	7.25	4*	46	33	8	38	51	42	67	12
	8.00	19*	47	34	20	39	52	43	68	21

RESTRICTION ON CURCUIT BOARD THICKNESS RANGE FOR PIN POSITIONS A, B, D & E

	DIM B								
	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
MIN THICKNESS	1.60	2.95	2.95	3.30	4.05	4.80	5.30	6.00	6.70
MAX THICKNESS	NONE	3.80	4.55	5.30	6.05	6.80	7.30	8.00	8.70

RESTRICTION ON CURCUIT BOARD THICKNESS RANGE FOR PIN POSITION C

	DIM B								
	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
MIN THICKNESS	1.60	2.95	2.95	2.95	3.05	3.80	4.30	5.00	5.70
MAX THICKNESS	NONE	3.80	4.55	5.30	6.05	6.80	7.30	8.00	8.70

RESTRICTION ON CURCUIT BOARD THICKNESS RANGE FOR PIN POSITION 'GND' **

	DIM B								
	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
MIN THICKNESS	1.60	2.95	3.25	4.00	4.75	5.50	6.00	6.70	7.40
MAX THICKNESS	NONE	4.20	4.95	5.70	6.45	7.20	7.70	8.40	9.10

- * STUB PINS - NO REAR PLUG-UP
- ** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

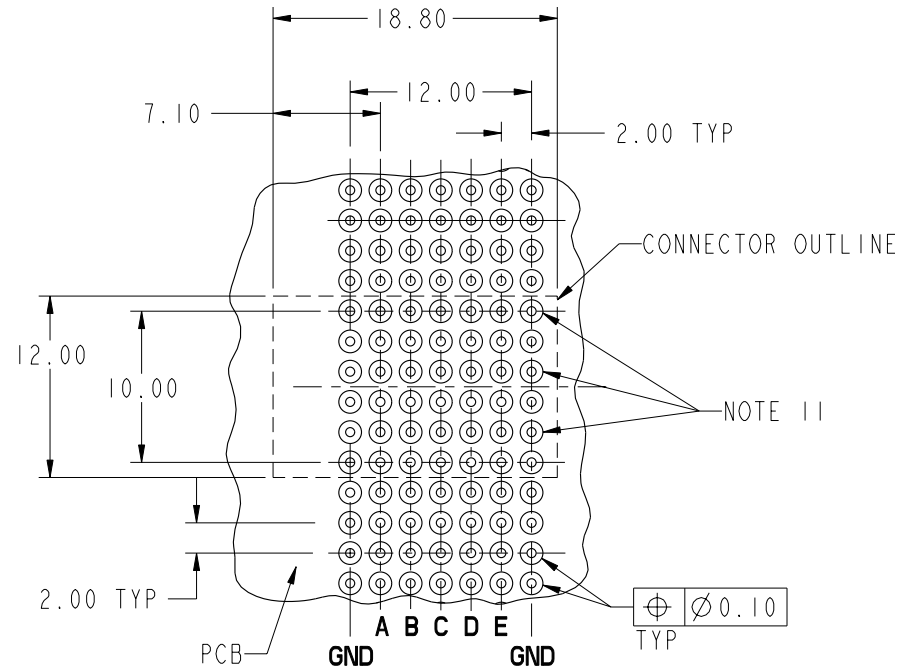
mat'l code				tolerances unless otherwise specified				CUSTOMER		www.fciconnect.com				
ltr	ecr no.	dr	date	linear	.XX ±.01			COPY			title			
J	-	-	-		.XXX ±.005			projection			HEADER ASS'Y			
					.XXX ±.0020						STR. P.F. EXT. 5-ROW			
					0° ±2°									
				angles										
				dr	E. KROPER.	1/25/01			MM		product family		METRAL 1000	code
				enrg	J. VOLSTORF	6/13/01			scale		size		dwg no	213
				chr	J. VOLSTORF	1/25/01			1:1		A		98122	sheet
				appd	J. VOLSTORF	1/25/01							3	
sheet index	revision sheet													




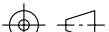

PRODUCT NUMBER
98122-XYX
98122-XYLF

PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	Ø 0.65-0.80
DRILLED HOLE	Ø 0.81-0.86 (Ø 0.85 DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015

SEE PRINT 58531 FOR ADDITIONAL PCB
INFORMATION



SHOWN FROM HEADER SIDE
OF CURCUIT BOARD
SEE NOTE 12

mat'l code				tolerances unless otherwise specified		CUSTOMER				www.fciconnect.com		
ltr	ecr no.	dr	date	linear	.XX ±.01	COPY			title HEADER ASS'Y STR. P.F. EXT. 5-ROW			
J	-	-	-		.XXX ±.005	projection						
					.XXX ±.0020							
				angles	0° ±2°							
				dr	E. KROPER.	1/25/01			product family		METRAL 1000	code
				enrg	J. VOLSTORF	6/13/01			size	dwg no	213	
				chr	J. VOLSTORF	1/25/01	scale		A		98122	sheet
				appd	J. VOLSTORF	1/25/01	1:1					4
sheet	revision											
index	sheet											





SIGNAL PIN CODES

PRODUCT #	ROW	COLUMN					
		1	2	3	4	5	6
98122-X001 SEE NOTE 18 LEAD FREE OPTION	E	03	03	03	03	03	03
	D	02	03	03	03	03	03
	C	03	03	03	03	03	03
	B	03	03	03	03	03	03
	A	03	03	03	03	03	03
	GND	01	01	01	01	01	01

NOTES:

- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CURCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
- SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
- SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATIONS."
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994
- HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
- PIN MATERIAL: PHOSPHER BRONZE
- GROUND SPRING MATERIAL: PHOSPHER BRONZE
- PLATING INFORMATION: SEE TABLE
- DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
FOR MATING WITH METRAL 1000 RECEPTACLES
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
FOR MATING WITH METRAL 4000 RECEPTACLES
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D & E
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D & E
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
- THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLAINT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPOSE THE GROUND SPRING OF THE SHROUD. THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.
- THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
- THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.
- CURRENT RATING : 1 AMP PER PIN
- TEMPERATURE RANGE : -55°C TO +105°C
- P/N 98122-X ZZZ
PIN POSITIONS
PLATING CODE
- P/N 98122-X01ZZZ SHOWN.

mat'l code				tolerances unless otherwise specified		CUSTOMER		<div>FCi</div> <div>www.fciconnect.com</div>				
ltr	ecn no.	dr	date	linear	.XX ±.01	COPY			title HEADER ASS'Y STR. P.F. EXT. 5-ROW			
J	-	-	-		.XXX ±.005	projection						
					.XXXX ±.0020							
				angles	0° ±2°							
				dr	E. KROPER.	1/25/01		product family		METRAL 1000	code	
				enrg	J. VOLSTORF	6/13/01		size	dwg no	213		
				chr	J. VOLSTORF	1/25/01		A	98122		sheet	
				appd	J. VOLSTORF	1/25/01	scale		1:1		5	
sheet index	revision sheet											

Pro/E

cage code 22526

PDM: Rev:J

STATUS Released

Printed: Jul 19, 2006



PRODUCT NUMBER	PIN CONTACT AREAS TO RECEPTACLE	PRESS FIT PIN TO PCB	GROUND SPRING CONTACT FINGERS	GROUND SPRING EON PRESS FIT TO PCB	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
98122-1ZZZ	0.8um Au OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84882-101
98122-2ZZZ	2.0um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84882-301
98122-3ZZZ	1.3um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	81882-301
98122-5ZZZ	1.3um GXT OVER Ni	SnPb OVER Ni	1.3um GXT OVER Ni	SnPb OVER Ni	84882-501
98122-9ZZZ	0.8um GXT OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84882-101
98122-AZZZ	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84882-101
98122-1ZZZLF	0.8um Au OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84882-101LF
98122-2ZZZLF	2.0um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84882-301LF
98122-3ZZZLF	1.3um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84882-301LF
98122-5ZZZLF	1.3um GXT OVER Ni	Sn OVER Ni	1.3um GXT OVER Ni	Sn OVER Ni	84882-501LF
98122-6ZZZLF	0.8um GXT OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84882-101LF
98122-AZZZLF	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84882-101LF

NOTES CONTINUED

17. THE PRODUCTS WHERE THE PART NUMBERS ENDS IN LF MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN
- ⑱. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 98122-XYYYLF

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY		title HEADER ASS'Y STR. P.F. EXT. 5-ROW
J	-	-	-		.XXX ±.005		projection		
					.XXXX ±.0020				
				angles	0° ±2°				product family METRAL 1000 code 213 sheet 6
				dr	E. KROPER.	1/25/01	scale		
				enrg	J. VOLSTORF	6/13/01	1:1		
				chr	J. VOLSTORF	1/25/01	A		cage code 22526
				appd	J. VOLSTORF	1/25/01			
sheet index	revision sheet								

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI / Amphenol:](#)

[98122-3001LF](#)