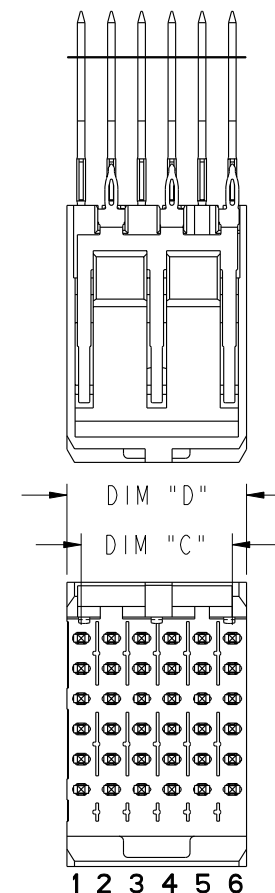
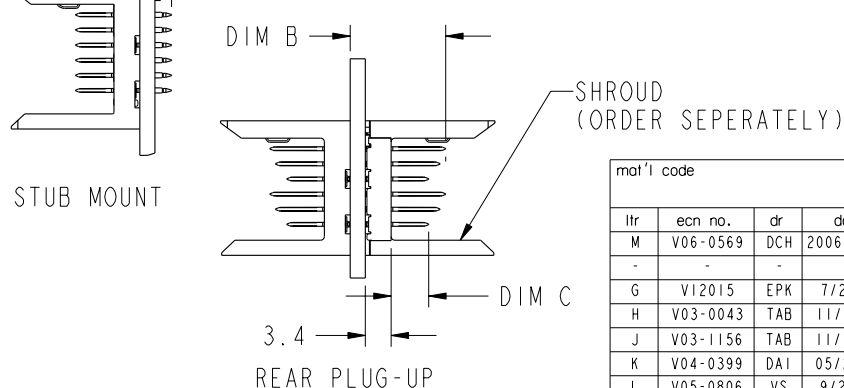
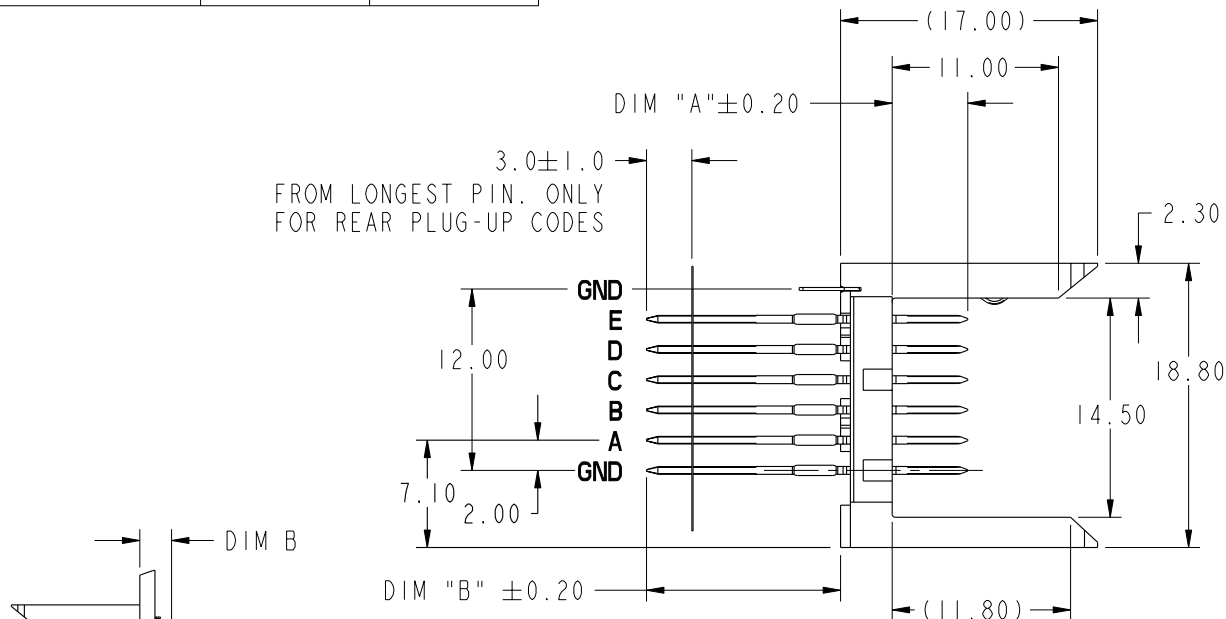




PRODUCT NUMBER	DIM C	DIM D
84881-X01ZZZ	10.00	11.88
84881-X02ZZZ	22.00	23.88
84881-X03ZZZ	34.00	35.88
84881-X04ZZZ	46.00	47.88
84881-X01ZZZLF	10.00	11.88
84881-X02ZZZLF	22.00	23.88
84881-X03ZZZLF	34.00	35.88
84881-X04ZZZLF	46.00	47.88



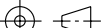

mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX ± .01	COPY		projection		title		HEADER ASS'Y	
M	V06-0569	DCH	2006-06-12	linear	.XXX ± .005	MM		STR. P.F. EXT. 5-ROW		product family		METRAL 1000	
G	VI2015	EPK	7/25/01	angles	.XXX ± .0020	scale		A		size		213	
H	V03-0043	TAB	11/14/03	dr	0° ± 2°	1:1		84881		dwg no		1 of 6	
J	V03-1156	TAB	11/14/03	engr									
K	V04-0399	DAI	05/24/04	chr									
L	V05-0806	VS	9/22/05	appd									
sheet index		revision	M	M	M	M	M	M	M	cage code		22526	
sheet		sheet	1	2	3	4	5	6				4	



INFORMATION FOR MATING WITH 84854 METRAL 1000 RECEPTACLES										
PIN CODES										
DIM A	DIM B									
	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10	
	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										
MIN THICKNESS	DIM B									
	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10	
	1.60	2.95	2.95	2.95	3.05	3.80	4.30	5.00	5.70	
	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' **										
MIN THICKNESS	DIM B									
	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10	
	1.60	2.95	3.25	4.00	4.75	5.50	6.00	6.70	7.40	
	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.

SEE NOTE 18 LEAD FREE OPTION	CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
PRODUCT NUMBER	MIN	MAX
84881-YYY002	2.95mm	3.80mm

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX ±.01	projection		title HEADER ASS'Y STR. P.F. EXT. 5-ROW	
M	-	-	-		.XXX ±.005				
					.XXXX ±.0020				
				angles	0° ±2°			product family METRAL 1000	
				dr	E. KROPER.	1/23/01	scale 1:1	size A	code 213 sheet 2
				enrg	J. VOLSTROF	1/23/01			
				chr	J. VOLSTORF	1/23/01			
				appd	J. VOLSTORF	1/23/01			
sheet index	revision sheet								



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		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY		title HEADER ASS'Y STR. P.F. EXT. 5-ROW
M	-	-	-		.XXX ±.005		projection		
					.XXX ±.0020				
				angles	0° ±2°				product family METRAL 1000 code 213 sheet 3
				dr	E. KROPER.	1/23/01	MM		
				enrg	J. VOLSTORF	1/23/01	scale		
				chr	J. VOLSTORF	1/23/01	1:1		A
				appd	J. VOLSTORF	1/23/01			
sheet index	revision sheet								

Pro/E

cage code 22526

PDM: Rev:M

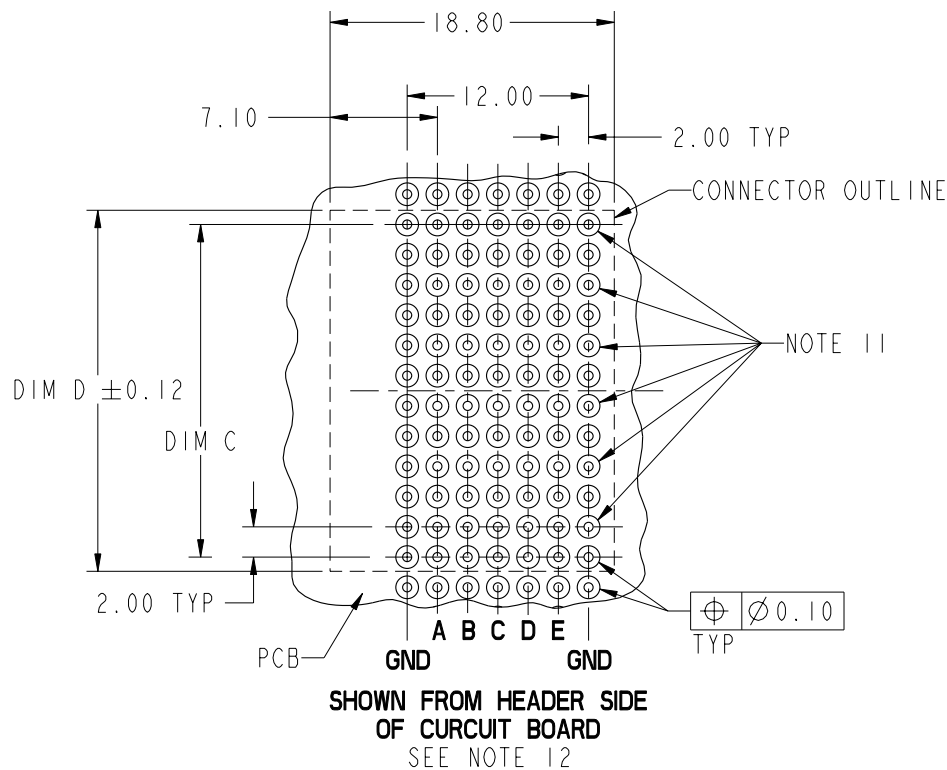
STATUS:Released

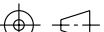
Printed: Jun 17, 2006



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

SEE PRINT 58351 FOR ADDITIONAL
PCB INFORMATION.



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		
M	-	-	-		.XXX ±.005						
					.XXXX ±.0020						
				angles	0° ±2°				product family METRAL 1000 code 213		
				dr	E. KROPER. 1/23/01						
				enr	J. VOLSTORF 1/23/01						
				chr	J. VOLSTORF 1/23/01						
				appd	J. VOLSTORF 1/23/01						
sheet index		revision sheet				MM		scale 1:1	size A	dwg no 84881	
											sheet 4



SIGNAL PIN TABLES

PRODUCT #	ROW	PIN CODES
84881-XY001 SEE NOTE 18 LEAD FREE OPTION	E	01
	D	
	C	
	B	
	A	
	GND	
84881-XY011 SEE NOTE 18 LEAD FREE OPTION	E	02
	D	
	C	
	B	
	A	
	GND	
84881-XY021 SEE NOTE 18 LEAD FREE OPTION	E	03
	D	
	C	
	B	
	A	
	GND	
84881-XY050 *RPU ** SEE NOTE 18 LEAD FREE OPTION	E	19
	D	
	C	
	B	
	A	
	GND	

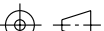
* REAR PLUG-UP CODES
** CANNOT BE MATED WITH
METRAL 4000 RECEPTACLE.

NOTES:

- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT 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: PHOSPHOR BRONZE
- GROUND SPRING MATERIAL: PHOSPHOR 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 OPPOSE 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 84881-X YY ZZZ

PIN POSITIONS
NUMBER MODULES
PLATING CODE

16. P/N 84881-X01ZZZ SHOWN.

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi www.fciconnect.com			
ltr	ecn no.	dr	date	linear	.XX ±.01	projection		title	HEADER ASS'Y STR. P.F. EXT. 5-ROW		
M	-	-	-		.XXX ±.005						
					.XXXX ±.0020						
				angles	0° ±2°						
		dr		E. KROPER.	1/23/01	MM ←→	scale	product family	METRAL 1000	code	
		enrg		J. VOLSTROF	1/23/01			size	dwg no	213	
		chr		J. VOLSTORF	1/23/01				84881	sheet	
		appd		J. VOLSTORF	1/23/01			A		5	
sheet index		revision sheet									



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
84881-1ZZZ	0.8um Au OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84881-2ZZZ	2.0um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84818-304
84881-3ZZZ	1.3um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84818-304
84881-5ZZZ	1.3um GXT OVER Ni	SnPb OVER Ni	1.3um GXT OVER Ni	SnPb OVER Ni	84818-504
84881-9ZZZ	0.8um GXT OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84881-AZZZ	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84881-1ZZZLF	0.8um Au OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
84881-2ZZZLF	2.0um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84818-304LF
84881-3ZZZLF	1.3um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84818-304LF
84881-5ZZZLF	1.3um GXT OVER Ni	Sn OVER Ni	1.3um GXT OVER Ni	Sn OVER Ni	84818-504LF
84881-9ZZZLF	0.8um GXT OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
84881-AZZZLF	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF

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: 84881-XXXXLF

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
M	-	-	-		.XXX ±.005		projection		
					.XXX ±.0020				
				angles	0° ±2°				product family METRAL 1000 code 213 sheet 6
				dr	E. KROPER.	1/23/01	scale		
				enr	J. VOLSTORF	1/23/01	1:1		
				chr	J. VOLSTORF	1/23/01	A		cage code 22526
				appd	J. VOLSTORF	1/23/01			
sheet index	revision sheet								