

	INFORMATION FOR MATING WITH 73981 & 84688 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	
	5.00	*	22	30	5	35	48	40	65	9	
	5.75	2*	4 4	31	6	36	49	25	66	10	
DIM A	6.50	3*	45	32	7	37	50	4	24	- 11	
	7.25	4*	46	33	8	38	51	42	67	12	
	8.00	19*	47	3.4	20	39	52	43	68	21	
		RESTRI			CUIT B TIONS		HICKNE C, D &	SS RAN E	GE		
						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	
		RESTRI			CUIT B			SS RAN	GE		
						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	

SEE NOTE 18 LEAD FREE OPTION	CIRCUIT BOARD FOR REAR PL	
PRODUCT NUMBER	MIN	MAX
84817-XYY002	2.95mm	3.80mm
84817-XYY024	4.00mm	5.30mm
84817-XYY025	*2.30-2.95mm	5.30mm
84817-XYY026	*2.95mm	3.80mm
84817-XYY030	*2.95mm	5.30mm
84817-XYY031	*2.30-5.30mm	7.30mm
84817-XYY032	2.95mm	3.80mm
848I7-XYY033	3.25mm	4.95mm
84817-XYY036	*2.30-2.95mm	3.80mm
84817-XYY038	5.50mm	6.80mm
84817-XYY039	4.00mm	5.70mm

* NOT A STANDARD METRAL 1000 REAR PLUG-UP APPLICATION.

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- * 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.

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Itr	ecn r	no.	dr	dat	te			.XX ±.01			1	COPY		www.fciconne				onnect.com		
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								.XXXX ±.0020			STR. P.F.				$D \cap W$					
						angles		0° =	±2°] \\		\Box	`	ν.	Γ,	г.	310	. J	- K O W
						dr	K.B	ELL	3/29/00		MM			produ	ict fam	iily	METR	AL I	000	code
						engr	М.Н	AHN	3/2	9/00	-	1 V 11 V 1	~	size	dwg	no				213
						chr	М.Н	AHN	3/2	9/00	scale			_		8,	18	l 7		sheet
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22526 STATUS: Released

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	INFORMATION FOR MATING WITH 52057 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			
	5.00	*	22	30	5	35	48	40	6.5	9			
	5.75	2*	4 4	31	6	36	49	25	66	10			
DIM A	6.50	3*	45	32	7	37	50	4	24	11			
	7.25	4 *	46	33	8	38	51	42	67	12			
	8.00	19*	47	34	20	39	52	43	68	21			
		RESTRI	CTION	ON CUR	CUIT B	OARD T	HICKNE	SS RAN	GE				
	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.												
	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			
		RESTRI	CTION		CUIT B IN POS			SS RAN	GE				
				1 011 1	111 1 00	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			
		RESTRI		ON CUR				SS RAN	GE				
			F 01	RPINI	2021110) ′ **						
				1.0.05		DIM B	1.5.00	1.5.70					
	MIN	4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10			
	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			

SEE NOTE 18 LEAD FREE OPTION	CIRCUIT BOARD FOR REAR PL	THICKNESS RANGE UG-UP CODES				
PRODUCT NUMBER	MIN	MAX				
84817-XYY002	2.95mm	3.80mm				
84817-XYY024	4.00mm	5.30mm				
84817-XYY025	*2.30-3.30mm	5.30mm				
84817-XYY026	*2.95mm	3.80mm				
84817-XYY030	*3.30mm	5.30mm				
84817-XYY031	*2.30-5.30mm	7.30mm				
84817-XYY032	2.95mm	3.80mm				
84817-XYY033	3.30mm	4.95mm				
84817-XYY036	*2.30-2.95mm	3.80mm				
84817-XYY038	5.50mm	6.80mm				
84817-XYY039	4.05mm	5.70mm				

* NOT A STANDARD METRAL 1000 REAR PLUG-UP APPLICATION.

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* 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.

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						engr	М.Н	IAHN	3/2	9/00	-	1 V 11 V 1	>	size	dwg	no				213	3
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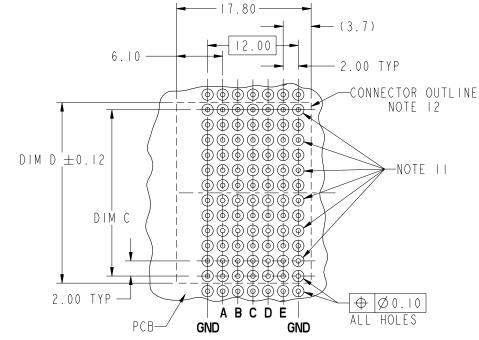
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PRESS-FIT HOLES	OPTION I
HOLE DIAMETER AFTER PLATING	0.65-0.80
DRILLED HOLE	0.81-0.86 (0.85 DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015

SEE PRINT 58315 FOR ADDITIONAL PCB INFORMATION



SHOWN FROM HEADER SIDE OF CIRCUIT BOARD

SEE NOTE 13

	<u> </u>								<i>J</i> L L	. 1101	_ '									
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					chr	М.Н	AHN	3/29	9/00	scale			_ \	Λ 84817			1 7		she	et
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SIGNAL PIN TABLES SIGNAL PIN TABLES SIGNAL PIN TABLES PRODUCT # PRODUCT # PRODUCT # PIN CODES ROW PIN CODES ROW PIN CODES ROW 2 D D 84817-XYY027 D 84817-XYY001 84817-XYY023 *RPU C C C 4 SEE NOTE 18 SEE NOTE 18 SEE NOTE 18 44 LEAD FREE LEAD FREE В В В LEAD FREE OPTION OPTION Α 2 Α OPTION Α GND GND GND 6 84817-XYY002 D 84817-XYY024 0 D 84817-XYY028 *RPU *RPU 8 3 \mathbb{C} C SEE NOTE 18 SEE NOTE 18 22 SEE NOTE 18 LEAD FREE В В В LEAD FREE LEAD FREE OPTION OPTION Α OPTION Α 6 Α GND GND GND Ε F 2 D 84817-XYY025 1 D 84817-XYY011 84817-XYY029 *RPU C C C 3 SEE NOTE 18 SEE NOTE 18 SEE NOTE 18 LEAD FREE LEAD FREE В В В LEAD FREE OPTION OPTION Α OPTION Α Α GND GND GND Ε Ε 6 D 84817-XYY026 D 84817-XYY030 D 84817-XYY021 *RPU *RPU C 7 22 C SEE NOTE 18 SFF NOTE 18 SFF NOTF 18 LEAD FREE В В В

OPTION

LEAD FREE

GND *REAR PLUG-UP CODES

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OPTION GND

OPTION

84817-XYY022

SEE NOTE 18 LEAD FREE

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METRAL 1000 code

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LEAD FREE

OPTION

tolerances unless

otherwise specified

K.BELL

M. HAHN

M. HAHN

M. HAHN

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product family

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SEE NOTE 18 LEAD FREE

OPTION

SIGNAL PIN TABLES

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PRODUCT #

84817-XYY031

NOTES:

112

PIN CODES

25

I. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING. CIRCUIT BOARD DESIGN CONSIDERATIONS. REPAIR PROCEDURES AND PRODUCT OFFERINGS.

2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."

3. SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."

4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994

5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-VO.

6. PIN MATERIAL: PHOSPHER BRONZE

7. GROUND SPRING MATERIAL: PHOSPHER BRONZE

8. PLATING INFORMATION: SEE TABLE

9. 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 10. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLAINT SECTIONS OF THE GROUNG 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 GES-20-010.

13. CURRENT RATING : I AMP PER PIN

14. TEMPERATURE RANGE : -55°C TO +105°C

15. P/N 84817-<u>X</u> YY ZZZ

-PIN POSITIONS NUMBER MODULES -PLATING CODE

16. P/N 84817-X01ZZZ SHOWN.

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						dr	K.B	ELL	3/2	9/00		MM		produ	ct fam	nily	METR	AL I	000	code	
						engr	М.Н	AHN	3/2	9/00	-	1 V 11 V 1	•	size	dwg	no				2	13
						chr	М.Н	AHN	3/2	9/00	scale			ΙΛΙ 84817				she	et		
						appd	М.Н	AHN	3/2	9/00		<u> </u>		A			+ 0			-	ô
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SIGNAL P	IN	TABLES
PRODUCT #	ROW	PIN CODES
	Е	
84817-XYY036	D	22
*RPU SEE NOTE 18	C	
LEAD FREE	В	1
OPTION	А	I
	GND	22
SIGNAL P	' N	TABLES
PRODUCT #	ROW	PIN CODES
	E	
84817-XYY037	D	
SEE NOTE 18	С	
LEAD FREE	В	
OPTION	A	
	GND	2
SIGNAL P	' N	TABLES
PRODUCT #	ROW	PIN CODES
	E	
84817-XYY038	D	
*RPU SEE NOTE 18	С	49
JEAN EDEE	lв	47

SIGNAL P	ΙN	TABLES
PRODUCT #	ROW	PIN CODES
	E	
84817-XYY039	D	
*RPU SFF NOTF 18	С	36
I FAD FRFF	В	
OPTION	А	
	GND	6

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

FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 84817-XYYYLF

	TRODUCT	11.011	I III CODE
		E	
	84817-XYY038	D	
Y"	*RPU SEE NOTE 18	С	49
ш_	LEAD FREE	В	49
	OPTION	А	
ë.		GND	

mat'l code tolerances unless CUSTOMER otherwise specified ecn no. dr date .XX ±.01 COPY www.fciconnect.com ΑD projection .XXX ±.005 linear HEADER ASS'Y .XXXX ±.0020 STR. P.F. STD. 5-ROW 0° ±2° product family METRAL 1000 code 3/29/00 dr K.BELL MM engr M. HAHN 3/29/00 size dwg no M.HAHN 3/29/00 sheet 8481 3/29/00 appd revision

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ING EON	FOR REAR PLUG-UP
TO PCB	APPLICATIONS USE SHROUD

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
84817-1222	0.8um Au OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84817-2777	2.0um Au OVER Ni	SnPb OVER Ni	I.3um Au OVER Ni	SnPb OVER Ni	84818-304
84817-3222	I.3um Au OVER Ni	SnPb OVER Ni	I.3um Au OVER Ni	SnPb OVER Ni	84818-304
84817-5222	I.3um GXT OVER Ni	SnPb OVER Ni	I.3um GXT OVER Ni	SnPb OVER Ni	84818-504
84817-9222	0.8um GXT OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
848I7-AZZZ	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84817-1ZZZLF	0.8um Au OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
84817-2ZZZLF	2.0um Au OVER Ni	Sn OVER Ni	I.3um Au OVER Ni	Sn OVER Ni	84818-304LF
848I7-3ZZZLF	I.3um Au OVER Ni	Sn OVER Ni	I.3um Au OVER Ni	Sn OVER Ni	84818-304LF
84817-5ZZZLF	I.3um GXT OVER Ni	Sn OVER Ni	I.3um GXT OVER Ni	Sn OVER Ni	84818-504LF
84817-9ZZZLF	0.8um GXT OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
84817-AZZZLF	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF

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AD			-		linear	.XXX ±.005			projection		title HEADER ASS'Y										
						.XXXX ±.0020					STR. P.F. STD. 5-ROV						u				
					angles	0° ±2°						\	3 TR. P.F. 3 TD. 3 TROV								
						dr	K.BELL		3/29/00		- MM		product family METRAL 1000 code								
						engr	M.HAHN		3/29/00				size dwg no							213	
					chr		M.HAHN		3/29/00		scale			A	84817					sheet	
						appd	M.HAHN		3/29/00		:			A	0 7 0 1 1				8		
sheet		revisi	ion																		
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