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		8		ATION F				'						
				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*	44	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	9*	47	34	20	39	52	43	68	2				
		RESTRI	CTION FOR PI	ON CUR N POSI			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	CTION	ON CUR	CUIT B	OARD T	HICKNE	SS RAN	GE					
				R PIN F										
						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 20 LEAD FREE OPTION	N	CIRCUIT BOARD FOR REAR PL	
PRODUCT NUMBER		MIN	MAX
84809-XYY007		6.00mm	7.30mm
84809-XYY051		2.95mm	4.20mm

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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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		5		IATION F				•						
			2002 181	PIN	CODES	.CLI IAC	LLU							
						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				
	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				
		RESTRI	CTION	ON CUR	CUIT B	OARD T	HICKNE	SS RAN	GF					
						ITION								
	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				

SEE NOTE 20 LEAD FREE OPTION	CIRCUIT BOARD FOR REAR PL	THICKNESS RANGE UG-UP CODES
PRODUCT NUMBER	MIN	MAX
84809-XYY007	6.00mm	7.30mm
84809-XYY051	2.95mm	4.20mm

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	RESTRI		ON CUR R PIN F				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
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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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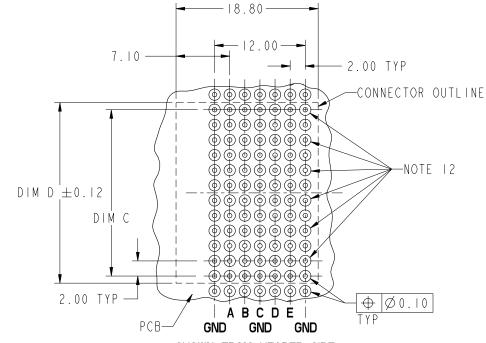
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PRESS-FIT HOLES	OPTION I
HOLE DIAMETER AFTER PLATING	Ø0.65-0.80
DRILLED HOLE	Ø0.81-0.86 (Ø0.85 DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015

SEE PRINT 58351 FOR ADDITIONAL PCB INFORMATION.



SHOWN FROM HEADER SIDE OF CURCUIT BOARD SEE NOTE 13

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	SIGNAL P	ΙN	TABLE2
	PRODUCT #	ROW	PIN CODES
		E	
	84809-XYY001	D	
	SEE NOTE 20	С	
	LEAD FREE	В	'
	OPTION	А	
		GND	
	0.4000 2222	E	
	84809-XYY007 *RPU	D	
	SEE NOTE 20	С	40
	LEAD FREE	В	
	OPTION	А	
		GND	
		E	
	84809-XYY0II	D	_
	SEE NOTE 20	С	2
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	OTTTON	A	I
		GND	
	84809-XYY051	E	
	*RPU	D C	31
	SEE NOTE 20	В	) ) )
	LEAD FREE	A	
	OPTION	А	

CIGNAL DIN TARLES

\*REAR PLUG-UP CODES

84809-XYY052 SEE NOTE 20

LEAD FREE

OPTION

GND

D

В

Α GND 22

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NOTES:

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

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

FOR DIFFERENTIAL APPLICATIONS."
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 YI4.5M, 1994

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

PIN MATERIAL: PHOSPHER BRONZE

GROUND SPRING MATERIAL: PHOSPHER BRONZE

8. STRIPLINE SHIELD MATERIAL: PHOSPHER BRONZE

9. PLATING INFORMATION: SEE TABLE

10. 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
II. 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

12. 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.

14. CURRENT RATING : I AMP PER PIN

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

16. P/N 84809-X YY ZZZ

PIN POSITIONS -NUMBER MODULES -PLATING CODE

17. P/N 84809-X YY ZZZ SHOWN.

FOR FRONT PLUG-UP APPLICATIONS. THE EVEN NUMBERED PINS IN ROW 'C' CAN BE USED FOR POWER AS WELL AS FOR GROUND. IF THE SURROUNDING PINS ARE NOT USED FOR POWER, THEN EACH PIN CAN CARRY 3 AMPS. IF THE SURROUNDING PINS ARE USED FOR POWER, THEN EACH PIN CAN CARRY I AMP. WHEN THE SURROUNDING PINS ARE USED ONLY FOR LOW SPEED SIGNALS, THEN THE EVEN NUMBERED 'C' ROW PINS CAN ALSO BE USED FOR LOW SPEED SIGNALS. THIS IS NOT TRUE FOR REAR PLUG-UP APPLICATIONS USING METRAL 2000 SHROUD AS IN THIS CASE ALL 'C' ROW PINS ARE COMMON TO GROUNG.

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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
84809-144222	0.8μm Au OVER Ni	SnPb OVER Ni	0.8μm Au OVER Ni	SnPb OVER Ni	84811-144
84809-2YYZZZ	2.0μm Au OVER Ni	SnPb OVER Ni	Ι.3μm Au OVER Ni	SnPb OVER Ni	84811-377
84809-3YYZZZ	I.3μm Au OVER Ni	SnPb OVER Ni	Ι.3μm Au OVER Ni	SnPb OVER Ni	84811-377
84809-5YYZZZ	Ι.3μm GXT OVER Ni	SnPb OVER Ni	I.3μm GXT OVER Ni	SnPb OVER Ni	84811-577
84809-9YYZZZ	0.8μm GXT OVER Ni	SnPb OVER Ni	0.8μm Au OVER Ni	SnPb OVER Ni	84811-144
84809-AYYZZZ	0.8μm Au OVER Ni	0.08μm Au OVER Ni	0.8μm Au OVER Ni	SnPb OVER Ni	84811-144
84809-IYYZZZLF	0.8µm Au OVER Ni	Sn OVER Ni	0.8μm Au OVER Ni	Sn OVER Ni	848II-IYYLF
84809-2YYZZZLF	2.0µm Au OVER Ni	Sn OVER Ni	Ι.3μm Au OVER Ni	Sn OVER Ni	848II-3YYLF
84809-3YYZZZLF	Ι.3μm Αυ ΟVER Ni	Sn OVER Ni	Ι.3μm Au OVER Ni	Sn OVER Ni	848II-3YYLF
84809-5YYZZZLF	Ι.3μm GXT OVER Ni	Sn OVER Ni	Ι.3μm GXT OVER Ni	Sn OVER Ni	848II-5YYLF
84809-9YYZZZLF	0.8μm GXT OVER Ni	Sn OVER Ni	0.8μm Au OVER Ni	Sn OVER Ni	848II-IYYLF
84809-AYYZZZLF	0.8μm Au OVER Ni	0.08µm Au OVER Ni	0.8μm Au OVER Ni	Sn OVER Ni	848II-IYYLF

## NOTES CONTINUED

19. 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: 84809-XYYYLF

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