

Д

		73981		ATION F 38 METF	OR MAT					
				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	19*	47	3.4	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
		RESTRI		ON CUR R PIN F		OARD T ON 'GN[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 17 LEAD FREE OPTION	CIRCUIT BOARD T FOR REAR PL				
	PRODUCT NUMBER	MIN	MAX			
	74817-X005	3.25mm	4.55mm			
	74817-X007	*2.30-2.95mm	5.30mm			
1	74817-X009	*2.30-2.95mm	5.30mm			
	74817-X011	*2.30-2.95mm	5.30mm			
	74817-X012	*2.30-2.95mm	5.30mm			
1	74817-X013	*2.30-2.95mm	5.30mm			
	74817-X014	*5.70mm	8.70mm			
]	74817-X024	*2.30-2.95mm	5.30mm			
$\frac{1}{1}$	74817-X026	3.80mm	6.80mm			
	74817-X027	3.80mm	6.80mm			
1	74817-X028	3.80mm	6.80mm			
_	74817-X034	*2.30-2.95mm	5.30mm			
	74817-X040	4.00mm	5.30mm			
	74817-X042	3.25mm	4.95mm			
	74817-X044	2.95mm	3.80mm			
	74817-X046	*2.95mm	3.80mm			

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

mat 'I	code						tolerances unless therwise specified			CU	STOM	IE R		F	Sj					
Itr	ecn	no.	dr	date			.XX ±.01		1	COPY				4		ww	w.fcic	onnect.	com	
AP		-	-	-	linear		.XXX ±.005		projection		title _L	1 E V L) F R	- 5	FIF	СТ	LOAD)		
							XXXX ±	.0020				'							,	
					angles		0° ±2°		7	ケヾ			311	۲. ۲).F.	31	υ.	JXO		
					dr	K.B	K.BELL 3/29/00			MM		produ	ict fam	nily	METR	AL I	000	code		
					engr	М.Н	M.HAHN 3/29/00		-	-		size	dwg					21	13	
					chr	М.Н	AHN	3/2	9/00	scale			Ι _Λ		7,	48	l 7		she	et
					appd	М.Н	M.HAHN 3/29/00			2:1		A		, .	7 ()	1 /		2	<u> </u>	
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ind	lex	sheet																		

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Pro/E

STATUS: Released

22526

Printed: Feb 22, 2007

1 2

* 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.

PDM: Rev:AP

SEE NOTE 17

LEAD FREE OPTION

PRODUCT

NUMBER 74817-X005

74817-X007

74817-X009

74817-X011

74817-X012

74817-X013

74817-X014

74817-X024

74817-X026

74817-X027

74817-X028

74817-X034

74817-X040

74817-X042

74817-X044

74817-X046

CIRCUIT BOARD THICKNESS RANGE

FOR REAR PLUG-UP CODES

MAX

4.55mm

* *

* *

5.30mm

5.30mm

5.30mm

8.70mm

5.30mm

6.80mm

6.80mm

6.80mm

* *

* *

* *

* *

3.80mm

Д

MIN

3.25mm

* *

* *

*2.30-3.30mm

*2.30-3.30mm

*2.30-3.30mm

*2.30-3.30mm

*2.30-4.80mm

*2.30-4.80mm

4.80mm

* *

* *

* *

* *

*2.95mm

*6.70mm

INFOR	MATION	FOR	MATING	WITH
52057 N	/ETRAL	4000	RECEP	TACLES

OZOCY WILTHAL TOOC NEOLI TACLEO											
			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*	44	31	6	36	49	25	66	10		
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	B0	ARD	ΤH	IC	ΚN	ESS	RANGE	
FOR	PIN	POSITIO	NS	Α,	В,	D	8	Ε		

		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 EOD DIN DOSITION C

				r Un r	IN LOS	TITON	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			
_													

RESTRICTIO	N ON	CUR	CUIT	BOARD	THI(CKNESS	RANGE
F	OR P	'IN F	POSIT	ION 'GI	VD′	* *	

		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					

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

** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE

* 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	no.	dr	da	te			. X X ±	.01			COPY				=		ww	w.fcic	onnect.	com
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								XXXX ±	.0020			7 -	1	'				ST			,
						angles		0° ±	-2°		7	ケト	J		SIF	. Г	.г.	31	υ.	JXO	
						dr	K.B	ELL	3/2	9/00		MM		produ	ct fam	ily	METR	AL I	000	code	
						engr	М.Н	AHN	3/2	9/00	-	1 V 11 V 1	~	size	dwg					2	l 3
						chr	М.Н	AHN	3/2	9/00	scale			_^		7 /	48	7		she	et
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				Pr	o/E							3			cag	e code	2	252	6		4

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REV E - 2006-04-18

DIM A

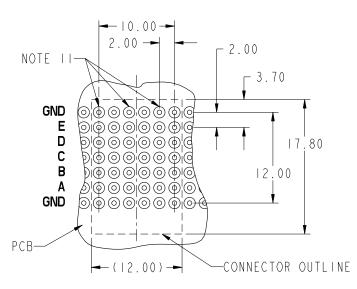
PDM: Rev:AP

1 2 3 4

PRODUCT	NUMBER
74817-	XZZZ
74817-X	ZZZLF

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 58351 FOR ADDITIONAL PCB INFORMATION



RECOMMENDED PCB HOLE PATTERN

(COMPONENT SIDE) NOTE 13

mat 'I	code							nces u ise spe			СП	STOM	ER		F	<u>Cj</u>					
Itr	ecn	no.	dr	do	ite		.XX ±.01					COPY				=		ww	w.fcic	onnect.	com
AP		-	-		-	linear					projec	tion		title L	1 [\ L) E D	- 0	ELE	СΤ	LOAD	,
] [.XXXX ±.0020					1	'							
						angles		0° ±2°				ナト	7		211	(. F	′.F.	ST	υ.	Эхь	
						dr	K.B	K.BELL 3/29/00				MM		produ	ct fam	nily	METR	AL I	000	code	
						engr	М.Н	AHN	3/29	9/00	-	1 V 11 V 1	~	size	dwg	no				21	3
						chr	М.Н	AHN	3/29	9/00	scale			_		7.	18	l 7		shee	et
						appd	М.Н	AHN	3/29	9/00		2:I		A		, .	+ ()	1 /		4	
she	et	revisi	ion																		
ind	ex	sheet																			
Pro/E					o/E							3			cag	e code	2	252	26	4	1

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112 3 | CONTACT CODE CONTACT CODE METRAL METRAL P/N P/N ROW | 2 3 4 5 6 ROW | | 2 | 3 | 4 | 5 |

E 19 3 3 3 2 1 D 19 3 3 3 2 74817-X011 74817-X006 *RPU C | 19 | 3 | 3 | 3 | 2 | 1 * * SEE NOTE 17 SEE NOTE 17 B 19 3 3 3 2 I LEAD FREE LEAD FREE A 19 3 3 3 2 I OPTION OPTION GND | | | | | | | | | | | |

CONTACT CODE METRAL P/N 2 3 4 5 6 ROW I 7 7 7 6 5 E 20 74817-X007 D 20 7 7 6 5 *RPU C 20 7 7 7 6 5 * * SEE NOTE 17 B 20 7 | 6 | 5 LEAD FREE 7 | 7 | 6 | 5 A 20 OPTION GND

CONTACT CODE METRAL P/N ROW | | | 2 | 3 | 4 | 5 | 6 E 19 3 3 3 3 3 D | 19 | 3 | 3 | 3 | 3 | 3 74817-X008 C | 19 | 3 | 3 | 3 | 3 | 3 * * SEE NOTE 17 B 19 3 3 3 3 3 LEAD FREE A 19 3 3 3 3 3 OPTION GND | | | | | | | |

CONTACT CODE METRAL P/N 2 3 4 5 6 ROW I E 20 7 7 7 7 7 74817-X009 D 20 7 7 7 7 7 *RPU C 20 7 | 7 | 7 | * * SEE NOTE 17 B 20 LEAD FREE A 20 7 7 7 7 7 7 OPTION GNDI

METRAL CONTACT CODE P/N 2 3 4 5 6 ROW I E 3 3 3 3 3 3 3 3 3 3 3 D | 2 74817-X010 C 3 3 3 3 3 3 SEE NOTE 17 LEAD FREE B 3 3 3 3 3 3 OPTION A 3 3 3 3 3 3 GND I

E 5 5 5 5 5 5 D 5 5 5 5 5 5 C 5 5 5 5 5 5 B 5 5 5 5 5 5 A 5 5 5 5 5 5 GND | | | | | | | |

CONTACT CODE METRAL P/N ROW | 2 3 4 5 6 E 2 2 6 6 6 6 74817-X012 D 2 2 6 6 6 6 *RPU C 2 2 6 6 6 6 SEE NOTE 17 B 2 2 6 6 6 6 LEAD FREE OPTION A | 2 | 2 | 6 | 6 | 6 | 6

CONTACT CODE METRAL P/N ROW | | 2 | 3 | 4 | 5 | 6 E 6 6 6 6 2 2 74817-X013 D 6 6 6 6 2 2 *RPU C | 6 | 6 | 6 | 6 | 2 | 2 SEE NOTE 17 B 6 6 6 6 2 2 LEAD FREE A 6 6 6 6 2 2 OPTION GND | | | | | | | | |

CONTACT CODE METRAL P/N ROW | | 2 | 3 | 4 | 5 | 6 E 10 10 10 10 10 10 74817-X014 D 10 10 10 10 10 10 *RPU C | 10 | 10 | 10 | 10 | 10 | 10 SEE NOTE 17 B 10 10 10 10 10 10 LEAD FREE A 10 10 10 10 10 10 OPTION GND | | |

METRAL CONTACT CODE P/N ROW | 2 3 4 5 6 E 2 2 2 2 2 2 2 D 2 2 2 2 2 2 74817-X015 C 4 4 4 4 4 4 SEE NOTE 17 LEAD FREE B 2 2 2 2 2 2 OPTION A 2 2 2 2 2 2 2 GND 2 2

		COM	HAC	I (ODE	
ROW	-	2	3	4	5	6
Ε	2	2	2	2	2	2
D	2	2	2	2	2	2
С	4	4	4	4	4	4
В	-1	2	2	2	2	
Α	2	2	2	2	2	2
GND	2	2	2	2	2	2
	E D C B	E 2 D 2 C 4 B 1 A 2	ROW I 2 E 2 2 D 2 2 C 4 4 B I 2 A 2 2	ROW I 2 3 E 2 2 2 D 2 2 2 C 4 4 4 B I 2 2 A 2 2 2	ROW I 2 3 4 E 2 2 2 2 2 D 2 2 2 2 C 4 4 4 4 B I 2 2 2 2 A 2 2 2 2	E 2 2 2 2 2 2 D 2 2 2 2 C 4 4 4 4 4 4 B I 2 2 2 2 2 2 A 2 2

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Α

CONTACT CODE METRAL P/N ROW | 2 | 3 | 4 | 5 | 6 DI 74817-X017 SEE NOTE 17 С 3 | 3 | 3 | 3 | 3 | 3 LEAD FREE В OPTION GND

CONTACT CODE METRAL P/N ROW | | | 2 | 3 | 4 | 5 | 6 E 3 2 2 1 1 1 74817-X018 D 3 2 2 SEE NOTE 17 3 2 2 3 3 3 3 LEAD FREE В 3 2 2 1 OPTION A 3 2 2 1 1 1 |GND||||||||||||||

METRAL CONTACT CODE P/N ROW | 2 3 4 5 6 1 | 1 | 2 | 2 | 3 2 2 3 74817-X019 SEE NOTE 17 С 3 3 3 2 2 3 LEAD FREE B | 1 | 1 | 2 | 2 | 3 OPTION A | | | | | | | 2 | 2 | 3

METRAL CONTACT CODE P/N ROW | 2 3 4 5 6 E | 1 | 3 | 3 | 3 | 1 | 1 3 3 3 1 19 74817-X023 SEE NOTE 17 В LEAD FREE Α 1 1 1 19 19 19 OPTION GND I

*	REAR	PLUG-UP	CODES	$W \mid T \mid H$	PIN	ALIGNER
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** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE

CONTACT CODE

1 2 3 4 5 6

4 3 3 1 1 1 D 4 3 3 1 1 1

4 | 3 | 3 | 1 | 1 |

4 3 3 1 1 1

CONTACT CODE

2 3 4 5 6

1 | 1 | 1 | 3 | 4

1 1 1 3 4

1 1 3 4

1 | 1 | 1 | 3 | 4

1 | 1 | 1 | 3 | 4

CONTACT CODE

2 3 2 2 4 19

2 3 2 2 4 19

2 3 2 2 4 19

CONTACT CODE

3 2 2 4 19 2

3 2 2 4 19 2

CONTACT CODE

6 6 6 6 6 6

6 6 6 6 6 6

30 6 6 6 6 6

6 6 6 6 6

A 6 6 6 6 6 6

GND 30 30 30 30 30

ROW | | 2 | 3 | 4 | 5 | 6

D 2 3 2 2 4 19

A 2 3 2 2 4 19

GND I I I I I

ROW | 2 3 4 5 6

E | 3 | 2 | 2 | 4 | 19 | 2

B 3 2 2 4 19 2

A 3 2 2 4 19 2

ROW | 2 | 3 | 4 | 5 | 6

A 4 3 3 1 1 1

METRAL

P/N

74817-X001

* *

SEE NOTE 17

OPTION

METRAL

P/N

74817-X002

* *

SEE NOTE 17

LEAD FREE

OPTION

METRAL

P/N

74817-X003

* *

SEE NOTE 17

LEAD FREE

OPTION

METRAL

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74817-X004

SEE NOTE 17

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SEE NOTE 17

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*** REAR PLUG-UP CODES WITHOUT PIN ALIGNER

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ma	t'l c	ode							inces u ise spi			CU	STOM	ΕR		F	Sj		www.fcic - SELECT .F. STD. ETRAL 1000			
Itr		ecn	no.	dr	do	ite			. XX ±	.01		1	COPY				=		ww	w.fcic	onnect.	com
Α	P		-	-		-	linear		.XXX ±	.005		projec	tion		title į	1 E V L) E D	- 0	ELE	СТ)
									хххх ±	.0020] d) (1	'							,
							angles		0°±	:2°		7	ケト	J		311	۲. ۲	.г.	31	υ.) X O	
							dr	K.B	ELL	3/2	9/00		MM		produ	ict fam	nily	METR	AL I	code		
							engr	М.Н	AHN	3/2	9/00	-	1 V 11 V 1	•	size	dwg					<u>L</u> 2	13
							chr	М.Н	AHN	3/2	9/00	scale			Ι _Λ		7,	18	l 7		she	et
							appd	М.Н	AHN	3/2	9/00		2:1		A			+ 0	1 /			5
	sheet	† [revisi	ion																		
	index	(sheet																			
					Pi	ro/E							3			cag	e code	2	252	26		4

PDM: Rev:AP

status:Released

Printed: Feb 22, 2007

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112 3 | CONTACT CODE CONTACT CODE CONTACT CODE METRAL METRAL METRAL METRAL P/N P/N P/N P/N ROW | 2 | 3 | 4 | 5 | 6 ROW | 2 | 3 | 4 | 5 | 6 ROW | 2 3 4 5 6 ROW | | 2 | 3 | 4 | 5 | 6 5 5 5 5 5 E 5 20 5 5 5 5 E | | | | | | | | | | | | | 74817-X034 74817-X024 D 5 5 5 5 5 5 DI D 5 20 5 5 5 5 DI 74817-X029 *RPU 74817-X039 *RPU C 5 20 5 5 5 5 C | 5 | 5 | 5 | 5 | 5 SEE NOTE 17 C C * * * * SEE NOTE 17 B 5 5 5 5 5 5 LEAD FREE ВІ SEE NOTE 17 B 5 20 5 5 5 5 SEE NOTE 17 ВІ LEAD FREE OPTION LEAD FREE A 5 20 5 5 5 5 LEAD FREE A 5 5 5 5 5 5 A | | | | 3 | | Α OPTION OPTION OPTION GND | | | | | | | IGND GNDL 11111 GND I CONTACT CODE CONTACT CODE CONTACT CODE METRAL METRAL METRAL METRAL P/N P/N P/N P/N ROW 1 2 3 4 5 6 ROW | 2 3 4 5 6 ROW | 2 3 4 5 6 ROW | 2 3 4 5 6 E 2 2 2 2 2 2 E 2 2 2 2 2 2 | 19 | 1 | 1 | 1 | E | 8 | 6 | 6 | 6 | 6 | 6 74817-X040 D 8 6 6 6 6 6 1 19 1 1 1 D 2 2 2 2 2 2 D 2 2 2 2 2 2 D 74817-X035 74817-X025 74817-X030 *RPU С 1 19 1 1 1 SEE NOTE 17 C 19 19 19 19 19 19 SEE NOTE 17 C 3 3 3 3 3 3 C 6 6 6 6 6 6 * * * * SEE NOTE 17 LEAD FREE B 2 2 2 2 2 2 2 LEAD FREE SEE NOTE 17 В B | 1 | 2 | 2 | 2 | 2 | 2 B 8 6 6 6 6 6 |19| 1 | 1 | 1 | LEAD FREE OPTION OPTION LEAD FREE A 8 6 6 6 6 6 Α A | 3 | 2 | 3 | 2 | 2 | 1 A | 1 | 2 | 2 | 2 | 2 | 2 OPTION OPTION GND 6 6 6 6 6 6 GND GNDII CONTACT CODE CONTACT CODE CONTACT CODE METRAL METRAL METRAL METRAL P/N P/N P/N P/N ROW | 2 | 3 | 4 | 5 | 6 ROW | 2 | 3 | 4 | 5 | 6 ROW | 2 | 3 | 4 | 5 | 6 ROW | | | 2 | 3 | 4 | 5 | 6 E 2 2 49 49 49 49 E 2 2 2 2 2 2 E 2 2 2 2 2 2 E 2 2 2 2 4 2 74817-X026 D 2 2 49 49 49 49 D 2 2 2 2 D 2 2 2 2 2 2 D 2 2 2 2 2 2 2 2 | 2 74817-X031 74817-X036 74817-X041 *RPU C 2 2 49 49 49 49 49 SEE NOTE 17 C |19|19|19|19|19|19| SEE NOTE 17 $C \mid I \mid I \mid$ 1 | 1 | 3 | 2 C | 2 | 2 | 2 | 2 | 2 | 4 * * SEE NOTE 17 LEAD FREE LEAD FREE SEE NOTE 17 B 2 2 49 49 49 49 B 2 2 2 2 2 2 B | 1 | 1 | 2 | 2 | 2 | 2 B 2 2 2 2 2 2 2 LEAD FREE OPTION OPTION LEAD FREE A 2 2 2 2 2 2 A 2 2 49 49 49 49 A | | 3 | 2 | 3 | 2 | 2 A 2 2 2 2 2 4 OPTION OPTION GND I I I I I GND | | | | | | | GND | | | | | | | |GND|||||||||||| CONTACT CODE CONTACT CODE METRAL METRAL P/N ROW | 2 | 3 | 4 | 5 | 6 F 49 49 49 49 2 2 74 SEE LEA

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74817-X027	D	49	49	49	49	2	2
*RPU SFF NOTF 17	С	49	49	49	49	2	2
LEAD FREE	В	49	49	49	49	2	2
OPTION	Α	49	49	49	49	2	2
	GND	-	1	Т	T	1	П
METRAL			CON	TAC	T C	ODE	
METRAL P/N	ROW	1	2	TAC 3	T C	ODE 5	6
	ROW	1	_	_	T C 4 49		6
P/N 74817-X028		1 49 49	2	3	4	5	_
P/N 74817-X028 *RPU	E		2	3 49	4	5 49	4
P/N 74817-X028	E D	49	2 49 49	3 49 49	4 49 49	5 49 49	49

*RPU SFF NOTE 17	С	49	49	49	49	2	2
SEE NOTE 17 LEAD FREE	В	49	49	49	49	2	2
OPTION	Α	49	49	49	49	2	2
	GND	-	-	Т	П	Т	Т
METRAL			CON	ITAC	T C	DDE	
P/N	ROW	1	2	3	4	5	6
	E	49	49	49	49	49	49
74817-X028	D	49	49	49	49	49	49
*RPU SFF NOTE 17	С	49	49	49	49	49	49
JEAD FREE	В	49	49	49	49	49	49
OPTION	Α	49	49	49	49	49	49
	GND	-	-	-	1	1	-

	OPIION	A	49	49	49	49	49	49		1 ,	
		GND	-		Т		1	-			
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** CANNOT BE MATED TO A METRAL 4000

RECEPTACLE *** REAR PLUG-UP CODES WITHOUT PIN ALIGNER

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	E	2	2	2	2	2	2		E	2	2	2	2	2	1
74817-X032	D	2	2	2	2	2	2	74817-X037	D	2	2	2	2	2	1
SEE NOTE 17	С	19	19	19	19	19	19	SEE NOTE 17	С	T	2	2	2	2	1
LEAD FREE	В	2	2	2	2	2	2	LEAD_FREE	В	T	1	-	1	T	Г
OPTION	Α	2	2	2	2	2	Т	OPTION	Α	2	2	2	2	2	1
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METRAL			CON	ITAC	T C	ODE		METRAL			CON	TAC	T C	ODE	
P/N	ROW	1	2	3	4	5	6	P/N	ROW	Т	2	3	4	5	(
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74817-X033	D	2	2	2	2	2	2	74817-X038	D	2	2	2	2	2	1
SEE NOTE 17	С	19	19	19	19	19	19	SEE NOTE 17	С	2	2	2	2	2	1
LEAD FREE	В	2	2	2	2	2	2	LEAD FREE	В	2	2	2	2	2	1
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METRAL			CON	ITAC	T C	ODE		METRAL			CON	TAC	T C	ODE	
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	Ε	2	2	2	2	2	2	74817-X042	E	8	6	6	6	6	6
817-X037	D	2	2	2	2	2	2	*RPU	D	8	6	6	6	6	6
NOTE 17	С		2	2	2	2	2	**	С	8	6	6	6	6	6
AD FREE	В	Т	1	1	1	T	1	SEE NOTE 17	В	8	6	6	6	6	6
OPTION	Α	2	2	2	2	2	2	LEAD FREE	Α	8	6	6	6 6 6 6 6 6 30 30 30	6	
	GND	Т	1	Τ	_	T	T	OPTION A O O O		30	30	30			
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METRAL			CON	ITAC	T C	ODE		METRAL			CON	TAC	T C	ODE	
P/N	ROW	1	2	3	4	5	6	P/N	ROW	1	2	3	4	5	6
	Ε	2	2	2	2	2	2		E	3	3	3	3	3	3
817-X038	D	2	2	2	2	2	2	74817-X043	D	3	3	3	3	_	3
817-X038 E NOTE 17 AD FREE	С	2	2	2	2	2	2	**	С	3	3	3	3	3	3
	В	2	2	2	2	2	2	SEE NOTE 17	В	3	3	3	3	3	3
OPTION	Α	2	2	2	3	2	2	LEAD FREE	Α	19	19	19	19	19	19
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CONTACT CODE

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METRAL

P/N

74817-X048

SEE NOTE 17

LEAD FREE

OPTION

METRAL

P/N

74817-X049

SEE NOTE 17

LEAD FREE

OPTION

METRAL

P/N

74817-X050

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SEE NOTE 17

OPTION

METRAL

P/N

74817-X051

* * SEE NOTE 17

LEAD FREE

OPTION

LEAD FREE

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2 2 2 2 2 2

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4 | 2 | 2 | 2 | 2 | 2

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ROW | 2 | 3 | 4 | 5 | 6

D 2 2 2 2 2 2 2

B 2 2 2 2 2 2 2

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ROW | 2 | 3 | 4 | 5 | 6

D 2 2 2 2 2 2 2

B 2 2 2 2 2 2 2

A 2 2 2 2 2 2 GND 2 2 2 2 2 2

ROW | 2 | 3 | 4 | 5 | 6

E 2 2 2 2 2 4

D 2 2 2 2 2 4

C 2 2 2 2 2 4

B 2 2 2 2 2 4

GND 2 2 2 2 2 2

ROW | 2 3 4 5 6 E 4 2 2 2 2 2 D 4 2 2 2 2 2 2

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1 2 2 2 4

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1 2 3 4 5 6

E 45 45 45 45 45 45

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METRAL

P/N

74817-X044

*RPU

* * SEE NOTE 17

LEAD FREE

OPTION

METRAL

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74817-X045

SEE NOTE 17

OPTION

METRAL

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74817-X046

*RPU

SEE NOTE 17

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CONTACT CODE METRAL P/N ROW | 2 3 4 5 6 E 2 2 2 2 2 2 D 2 2 2 2 2 2 74817-X056 C 4 2 2 2 2 2 SEE NOTE 17 LEAD FREE B 2 2 2 2 2 2

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METRAL			CON	TAC	T C	ODE	
P/N	ROW	1	2	3	4	5	6
	E	4	2	2	2	2	2
74817-X055	D	4	2	2	2	2	2
** SFF NOTF 17	С	4	2	2	2	2	2
LEAD FREE	В	4	2	2	2	2	2
OPTION	Α	4	2	2	2	2	2
	CND		2	1	^	2	

METRAL			CON	TAC	T C	ODE	
P/N	ROW	1	2	3	4	5	6
	E	5	5	5	5	5	5
74817-X052	D	5	5	5	5	5	5
***RPU	С	5	5	5	5	5	5
SEE NOTE 17	В	5	5	5	5	5	5
LEAD FREE	Α	5	5	5	5	5	5
OPTION	GND	1	1	_	-	1	1

METRAL			CON	TAC	T C	ODE	
P/N	ROW	-	2	3	4	5	6
	Ε	5	20	5	5	5	5
74817-X053	D	5	20	5	5	5	5
***RPU	С	5	20	5	5	5	5
SEE NOTE 17	В	5	20	5	5	5	5
LEAD FREE OPTION	Α	5	20	5	5	5	5
OPTION	GND	_			П		

METRAL			CON	ITAC	T C	ODE	
P/N	ROW		2	3	4	5	6
	Ε	22	22	22	22	22	22
74817-X054	D	22	22	22	22	22	22
***RPU	С	45	45	45	45	45	45
SEE NOTE 17	В	22	22	22	22	22	22
LEAD FREE	Α	22	22	22	22	22	22
OPTION	GND	1	22	22	22	22	1

METRAL			CON	TAC	T C	ODE	
P/N	ROW	Τ	2	3	4	5	6
	Ε	4	2	2	2	2	2
74817-X055	D	4	2	2	2	2	2
** SEE NOTE 17	С	4	2	2	2	2	2
LEAD FREE	В	4	2	2	2	2	2
OPTION	Ā	4	2	2	2	2	2
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		Ε	2	П	2	2	2	2				
	74817-X047	D	2	2	2	2	2	2				
	SEE NOTE 17	С	2	2	2	2	2	2				
7	LEAD FREE	В	2	2	2	2	2	2				
10	OPTION	Α	2	2	2	2	2	2				

LEAD FREE	В	2	2	2	2	2	2
OPTION	A	2	2	2	2	2	2
	GND	_	1	1	1	_	_
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- REAR PLUG-UP CODES WITH PIN ALIGNER
- ** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE
- *** REAR PLUG-UP CODES WITHOUT PIN ALIGNER

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PRODUCT NUMBER 74817-XZZZ 74817-XZZZLF

NOTES:

I. SEE APPLICATION SPECIFICATION GES-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."

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

IO. 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.

II. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.

12. 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 74817-X ZZZ

-PIN POSITIONS - PLATING CODE

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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
74817-1222	0.8um Au OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
74817-2777	2.0um Au OVER Ni	SnPb OVER Ni	I.3um Au OVER Ni	SnPb OVER Ni	84818-304
74817-3222	I.3um Au OVER Ni	SnPb OVER Ni	I.3um Au OVER Ni	SnPb OVER Ni	84818-304
74817-5222	I.3um GXT OVER Ni	SnPb OVER Ni	I.3um GXT OVER Ni	SnPb OVER Ni	84818-504
74817-9ZZZ	0.8um GXT OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
74817-AZZZ	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
74817-1ZZZLF	0.8um Au OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
74817-2ZZZLF	2.0um Au OVER Ni	Sn OVER Ni	I.3um Au OVER Ni	Sn OVER Ni	84818-304LF
74817-3ZZZLF	I.3um Au OVER Ni	Sn OVER Ni	I.3um Au OVER Ni	Sn OVER Ni	84818-304LF
74817-5ZZZLF	I.3um GXT OVER Ni	Sn OVER Ni	I.3um GXT OVER Ni	Sn OVER Ni	84818-504LF
74817-9ZZZLF	0.8um GXT OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
74817-AZZZLF	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF

NOTES CONTINUED

16. 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: 74817-XYYYLF

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