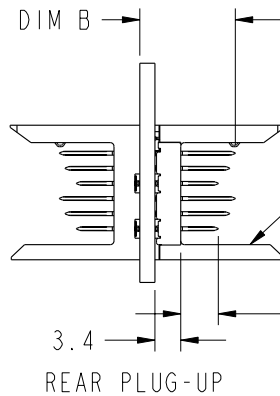
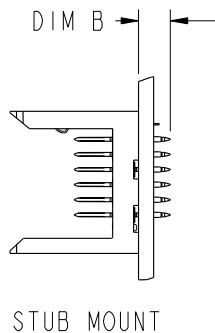
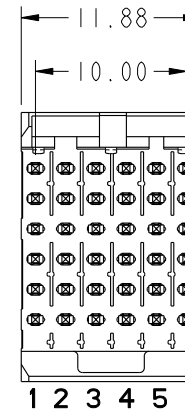
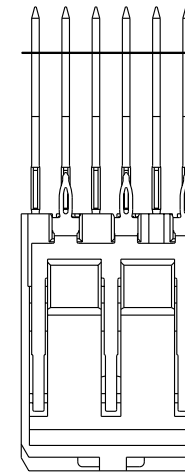
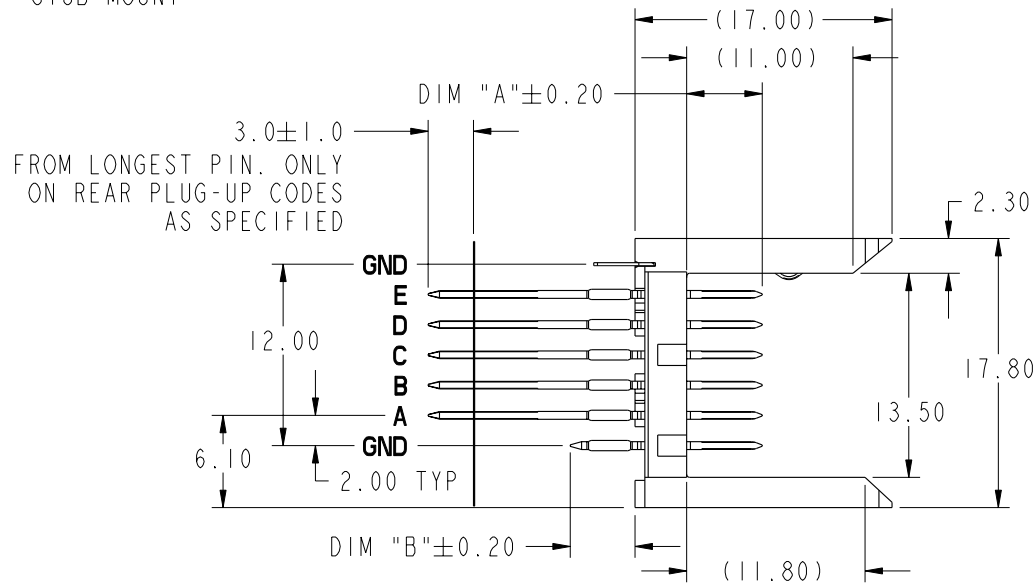




PRODUCT NUMBER
74817-XZZZ
74817-XZZZLF



SHROUD
(ORDER SEPERATELY)



mat'l code				tolerances unless otherwise specified				CUSTOMER				FCI			
ltr	ecn no.	dr	date	linear	.XX ± .01			COPY							
AN	V06-0544	DCH	2006-06-09	linear	.XXX ± .005			projection							
AP	V06-0702	LP	2006/07/28	linear	.XXXX ± .0020										
-	-	-	-	angles	0° ± 2°										
AJ	V04-0195	LP	2/27/04	dr	K.BELL	3/29/00		MM							
AK	V04-0399	DAI	05/24/04	engr	M. HAHN	3/29/00									
AL	V05-0118	TAB	02/10/05	chr	M. HAHN	3/29/00		scale							
AM	V05-0806	VS	09/13/05	appd	M. HAHN	3/29/00		2:1							
sheet index	revision sheet	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP				
		1	2	3	4	5	6	7	8	9					

title				product family				code			
HEADER - SELECT LOAD				METRAL 1000				213			
STR. P.F. STD. 5x6				size				1 of 9			
dwg no				74817							
cage code				22526				4			

Pro/E

PDM: Rev:AP

STATUS:Released

Printed: Feb 22, 2007



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
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.

SEE NOTE 17 LEAD FREE OPTION	CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
PRODUCT NUMBER	MIN	MAX
74817-X005	3.25mm	4.55mm
74817-X007	*2.30-2.95mm	5.30mm
74817-X009	*2.30-2.95mm	5.30mm
74817-X011	*2.30-2.95mm	5.30mm
74817-X012	*2.30-2.95mm	5.30mm
74817-X013	*2.30-2.95mm	5.30mm
74817-X014	*5.70mm	8.70mm
74817-X024	*2.30-2.95mm	5.30mm
74817-X026	3.80mm	6.80mm
74817-X027	3.80mm	6.80mm
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'l code				tolerances unless otherwise specified		CUSTOMER		FCi			
ltr	ecr no.	dr	date	linear	.XX ±.01	COPY		www.fciconnect.com			
AP	-	-	-		.XXX ±.005	projection		title			
					.XXXX ±.0020			HEADER - SELECT LOAD STR. P.F. STD. 5x6			
				angles	0° ±2°			product family			
				dr	K.BELL 3/29/00	MM		METRAL 1000			
				enrg	M. HAHN 3/29/00			code			
				chr	M. HAHN 3/29/00	scale		213			
				appd	M. HAHN 3/29/00	2:1		sheet			
sheet index		revision sheet						2			



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
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.

SEE NOTE 17 LEAD FREE OPTION		CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
PRODUCT NUMBER	MIN	MAX	
74817-X005	3.25mm	4.55mm	
74817-X007	**	**	
74817-X009	**	**	
74817-X011	*2.30-3.30mm	5.30mm	
74817-X012	*2.30-3.30mm	5.30mm	
74817-X013	*2.30-3.30mm	5.30mm	
74817-X014	*6.70mm	8.70mm	
74817-X024	*2.30-3.30mm	5.30mm	
74817-X026	*2.30-4.80mm	6.80mm	
74817-X027	*2.30-4.80mm	6.80mm	
74817-X028	4.80mm	6.80mm	
74817-X034	**	**	
74817-X040	**	**	
74817-X042	**	**	
74817-X044	**	**	
74817-X046	*2.95mm	3.80mm	

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

** CANNOT BE MATED TO A
METRAL 4000 RECEPTACLE

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com		
ltr	ecn no.	dr	date	linear	.XX ±.01	COPY		projection	title HEADER - SELECT LOAD STR. P.F. STD. 5x6	
AP	-	-	-		.XXX ±.005					
					.XXXX ±.0020					
				angles	0° ±2°			 MM scale 1:1	product family METRAL 1000 size A	
				dr	K.BELL	3/29/00	code 213			
				engr	M. HAHN	3/29/00				sheet 3
				chr	M. HAHN	3/29/00				
				appd	M. HAHN	3/29/00				
sheet index		revision sheet								

Pro/E

cage code 22526

PDM: Rev:AP

STATUS:Released

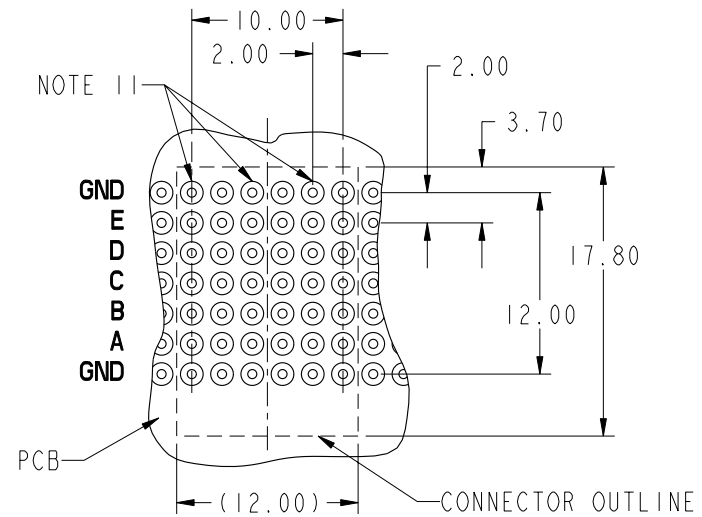
Printed: Feb 22, 2007




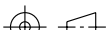
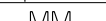
PRODUCT NUMBER
74817-XZZZ
74817-XZZZLF

PRESS-FIT HOLES	OPTION 1
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'l code				--		tolerances unless otherwise specified		CUSTOMER		FCI 		www.fciconnect.com		
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY			title HEADER - SELECT LOAD STR. P.F. STD. 5x6				
AP	-	-	-		.XXX ±.005		projection							
					.XXXX ±.0020									
				angles	0° ±2°									
				dr	K. BELL	3/29/00			product family		METRAL 1000	code	213	
				enrg	M. HAHN	3/29/00			size	dwg no	74817			sheet
				chr	M. HAHN	3/29/00			scale	A				4
				appd	M. HAHN	3/29/00	2:1							
sheet		revision												
index		sheet												

cage code 22526

Pro/E

PDM: Rev:AP

STATUS: **Released**

Printed: Feb 22, 2007

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X001 ** SEE NOTE 17 LEAD FREE OPTION	E	4	3	3	1	1	1
	D	4	3	3	1	1	1
	C	4	3	3	1	1	1
	B	4	3	3	1	1	1
	A	4	3	3	1	1	1
	UND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X006 ** SEE NOTE 17 LEAD FREE OPTION	E	19	3	3	3	2	1
	D	19	3	3	3	2	1
	C	19	3	3	3	2	1
	B	19	3	3	3	2	1
	A	19	3	3	3	2	1
	GND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X011 *RPU SEE NOTE 17 LEAD FREE OPTION	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						

METRAL P/N	ROW	CONTACT CODE				
		1	2	3	4	5
74817-X016 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2
	D	2	2	2	2	2
	C	4	4	4	4	4
	B	1	2	2	2	2
	A	2	2	2	2	2
	GN D	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X002 ** SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	1	3	4
	D	1	1	1	1	3	4
	C	1	1	1	1	3	4
	B	1	1	1	1	3	4
	A	1	1	1	1	3	4
	UND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X007 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	20	7	7	7	6	5
	D	20	7	7	7	6	5
	C	20	7	7	7	6	5
	B	20	7	7	7	6	5
	A	20	7	7	7	6	5
	GND	1	1	1	1	1	1

METAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X012 *RPU SEE NOTE 17 LEAD FREE OPTION	E	2	2	6	6	6	6
	D	2	2	6	6	6	6
	C	2	2	6	6	6	6
	B	2	2	6	6	6	6
	A	2	2	6	6	6	6
	GND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE				
		1	2	3	4	5
74817-X017 SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	1	1
	D	1	1	1	1	1
	C	3	3	3	3	3
	B	1	1	1	1	1
	A	1	1	1	1	1
	GN	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X003 ** SEE NOTE 17 LEAD FREE OPTION	E	2	3	2	2	4	19
	D	2	3	2	2	4	19
	C	2	3	2	2	4	19
	B	2	3	2	2	4	19
	A	2	3	2	2	4	19
	GN	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X008 ** SEE NOTE 17 LEAD FREE OPTION	E	19	3	3	3	3	3
	D	19	3	3	3	3	3
	C	19	3	3	3	3	3
	B	19	3	3	3	3	3
	A	19	3	3	3	3	3
	GND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X013 *RPU SEE NOTE 17 LEAD FREE OPTION	E	6	6	6	6	2	2
	D	6	6	6	6	2	2
	C	6	6	6	6	2	2
	B	6	6	6	6	2	2
	A	6	6	6	6	2	2
	GND	1	1	1	1	1	1

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

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X004 ** SEE NOTE 17 LEAD FREE OPTION	E	3	2	2	4	19	2
	D	3	2	2	4	19	2
	C	3	2	2	4	19	2
	B	3	2	2	4	19	2
	A	3	2	2	4	19	2
	GND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X009 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	20	7	7	7	7	7
	D	20	7	7	7	7	7
	C	20	7	7	7	7	7
	B	20	7	7	7	7	7
	A	20	7	7	7	7	7
	GND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X014 *RPU SEE NOTE 17 LEAD FREE OPTION	E	10	10	10	10	10	1
	D	10	10	10	10	10	1
	C	10	10	10	10	10	1
	B	10	10	10	10	10	1
	A	10	10	10	10	10	1
	GND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE				
		1	2	3	4	5
74817-X019 SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	2	2
	D	1	1	1	2	2
	C	3	3	3	2	2
	B	1	1	1	2	2
	A	1	1	1	2	2
	GN	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X005 *RPU SEE NOTE 17 LEAD FREE OPTION	E	6	6	6	6	6	6
	D	6	6	6	6	6	6
	C	30	6	6	6	6	6
	B	6	6	6	6	6	6
	A	6	6	6	6	6	6
	GND	30	30	30	30	30	30

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X010 SEE NOTE 17 LEAD FREE OPTION	E	3	3	3	3	3	3
	D	2	3	3	3	3	3
	C	3	3	3	3	3	3
	B	3	3	3	3	3	3
	A	3	3	3	3	3	3
	GROUND	1	1	1	1	1	1

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X015 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	4	4	4	4	4	4
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
	GN	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE				
		1	2	3	4	5
74817-X023 ** SEE NOTE 17 LEAD FREE OPTION	E	1	3	3	3	1
	D	1	3	3	3	1
	C	1	1	1	1	1
	B	1	1	1	1	1
	A	1	1	19	19	1
	GND	1	1	1	1	1

```
* REAR PLUG-UP CODES WITH PIN ALIGNER
** CANNOT BE MATED TO A METRAL 4000
  RECEPTACLE
*** REAR PLUG-UP CODES WITHOUT PIN ALIGNER
```

[illegible]



A

1										2										3										4																					
METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE					
74817-X024 *RPU SEE NOTE 17 LEAD FREE OPTION							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 1 1 1 1 1 1						74817-X029 SEE NOTE 17 LEAD FREE OPTION							E 1 1 1 1 1 1 D 1 1 1 1 1 2 C 1 1 1 1 1 1 B 1 1 1 1 1 1 A 1 1 3 1 1 3 GND 1 1 1 1 1 1						74817-X034 *RPU ** SEE NOTE 17 LEAD FREE OPTION							E 5 20 5 5 5 5 D 5 20 5 5 5 5 C 5 20 5 5 5 5 B 5 20 5 5 5 5 A 5 20 5 5 5 5 GND 1 1 1 1 1 1						74817-X039 ** SEE NOTE 17 LEAD FREE OPTION							E 1 1 1 1 1 1 D 1 1 1 1 1 1 C 1 1 1 1 1 1 B 1 1 1 1 1 1 A 1 4 1 1 1 1 GND 1 1 1 1 1 1					
METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE					
74817-X025 ** SEE NOTE 17 LEAD FREE OPTION							E 1 19 1 1 1 1 D 1 19 1 1 1 1 C 1 19 1 1 1 1 B 1 19 1 1 1 1 A 1 19 1 1 1 1 GND 1 1 1 1 1 1						74817-X030 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 19 19 19 19 19 19 B 2 2 2 2 2 2 A 3 2 3 2 2 1 GND 1 1 1 1 1 1						74817-X035 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 3 3 3 3 3 3 B 1 2 2 2 2 2 A 1 2 2 2 2 2 GND 1 1 1 1 1 1						74817-X040 *RPU ** SEE NOTE 17 LEAD FREE OPTION							E 8 6 6 6 6 6 D 8 6 6 6 6 6 C 6 6 6 6 6 6 B 8 6 6 6 6 6 A 8 6 6 6 6 6 GND 6 6 6 6 6 6					
METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE					
74817-X026 *RPU SEE NOTE 17 LEAD FREE OPTION							E 2 2 49 49 49 49 D 2 2 49 49 49 49 C 2 2 49 49 49 49 B 2 2 49 49 49 49 A 2 2 49 49 49 49 GND 1 1 1 1 1 1						74817-X031 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 19 19 19 19 19 19 B 2 2 2 2 2 2 A 1 3 2 3 2 2 GND 1 1 1 1 1 1						74817-X036 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 1 1 1 1 3 2 B 1 1 2 2 2 2 A 2 2 2 2 2 2 GND 1 1 1 1 1 1						74817-X041 ** SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 4 2 D 2 2 2 2 2 2 C 2 2 2 2 2 4 B 2 2 2 2 2 2 A 2 2 2 2 2 4 GND 1 1 1 1 1 1					
METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE					
74817-X027 *RPU SEE NOTE 17 LEAD FREE OPTION							E 49 49 49 49 2 2 D 49 49 49 49 2 2 C 49 49 49 49 2 2 B 49 49 49 49 2 2 A 49 49 49 49 2 2 GND 1 1 1 1 1 1						74817-X032 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 19 19 19 19 19 19 B 2 2 2 2 2 2 A 2 2 2 2 2 1 GND 1 1 1 1 1 1						74817-X037 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 1 2 2 2 2 2 B 1 1 1 1 1 1 A 2 2 2 2 2 2 GND 1 1 1 1 1 1						74817-X042 *RPU ** SEE NOTE 17 LEAD FREE OPTION							E 8 6 6 6 6 6 D 8 6 6 6 6 6 C 8 6 6 6 6 6 B 8 6 6 6 6 6 A 8 6 6 6 6 6 GND 30 30 30 30 30 30					
METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE						METRAL P/N							CONTACT CODE					
74817-X028 *RPU SEE NOTE 17 LEAD FREE OPTION							E 49 49 49 49 49 49 D 49 49 49 49 49 49 C 49 49 49 49 49 49 B 49 49 49 49 49 49 A 49 49 49 49 49 49 GND 1 1 1 1 1 1						74817-X033 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 19 19 19 19 19 19 B 2 2 2 2 2 2 A 1 2 2 2 2 3 GND 1 1 1 1 1 1						74817-X038 SEE NOTE 17 LEAD FREE OPTION							E 2 2 2 2 2 2 D 2 2 2 2 2 2 C 2 2 2 2 2 2 B 2 2 2 2 2 2 A 2 2 2 3 2 2 GND - - - - -						74817-X043 ** SEE NOTE 17 LEAD FREE OPTION							E 3 3 3 3 3 3 D 3 3 3 3 1 3 C 3 3 3 3 3 3 B 3 3 3 3 3 3 A 19 19 19 19 19 19 GND 1 1 1 1 1 1					



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METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X044 *RPU ** SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	45	45	45	45	45	45
	D	45	45	45	45	22	45
	C	45	45	45	45	45	45
	B	45	45	45	45	45	45
	A	47	47	47	47	47	47
	GND	22	22	22	22	22	22
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X045 SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	1	2	2	2	2
	GND	1	1	1	1	1	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X046 *RPU SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	22	22	22	22	22	22
	D	22	22	22	22	22	22
	C	45	45	45	45	45	45
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22
	GND	1	22	22	22	22	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X047 SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	2	1	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
	GND	1	1	1	1	1	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X048 SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	2	2	2	2	2	4
	B	2	2	2	2	2	4
	A	2	1	2	2	2	4
	GND	2	2	2	2	2	2
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X049 SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	4	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
	GND	2	2	2	2	2	2
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X050 ** SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	22	22	22	22	22	22
	D	22	22	22	22	22	22
	C	45	45	45	45	45	45
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22
	GND	1	22	22	22	22	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X051 ** SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	4	2	2	2	2	2
	D	4	2	2	2	2	2
	C	4	2	2	2	2	2
	B	4	2	2	2	2	2
	A	4	1	2	2	2	2
	GND	2	2	2	2	2	2
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X052 ***RPU SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	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	1	1	1	1	1	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X053 ***RPU SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	5	20	5	5	5	5
	D	5	20	5	5	5	5
	C	5	20	5	5	5	5
	B	5	20	5	5	5	5
	A	5	20	5	5	5	5
	GND	1	1	1	1	1	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X054 ***RPU SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	22	22	22	22	22	22
	D	22	22	22	22	22	22
	C	45	45	45	45	45	45
	B	22	22	22	22	22	22
	A	22	22	22	22	22	22
	GND	1	22	22	22	22	1
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X055 ** SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	4	2	2	2	2	2
	D	4	2	2	2	2	2
	C	4	2	2	2	2	2
	B	4	2	2	2	2	2
	A	4	2	2	2	2	2
	GND	-	2	2	2	2	-
METRAL P/N		CONTACT CODE		METRAL P/N		CONTACT CODE	
74817-X056 SEE NOTE 17 LEAD FREE OPTION	ROW	1	2	3	4	5	6
	E	2	2	2	2	2	2
	D	2	2	2	2	2	2
	C	4	2	2	2	2	2
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
	GND	-	2	2	2	2	-

* 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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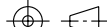

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* REAR PLUG-UP CODES WITH PIN ALIGNER
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 *** REAR PLUG-UP CODES WITHOUT PIN ALIGNER

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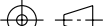



PRODUCT NUMBER
74817-XZZZ
74817-XZZZLF

NOTES:

- SEE APPLICATION SPECIFICATION GES-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 APPLICATION."
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 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 GES-20-010.
- CURRENT RATING: 1 AMP PER PIN
- TEMPERATURE RANGE: -55°C TO +105°C
- 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
74817-1ZZZ	0.8um Au OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
74817-2ZZZ	2.0um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84818-304
74817-3ZZZ	1.3um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84818-304
74817-5ZZZ	1.3um GXT OVER Ni	SnPb OVER Ni	1.3um 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	1.3um Au OVER Ni	Sn OVER Ni	84818-304LF
74817-3ZZZLF	1.3um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84818-304LF
74817-5ZZZLF	1.3um GXT OVER Ni	Sn OVER Ni	1.3um 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
- ⑰. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 74817-XXXXLF

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				chr	M. HAHN	3/29/00	A		cage code 22526
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