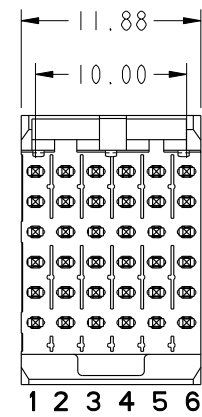
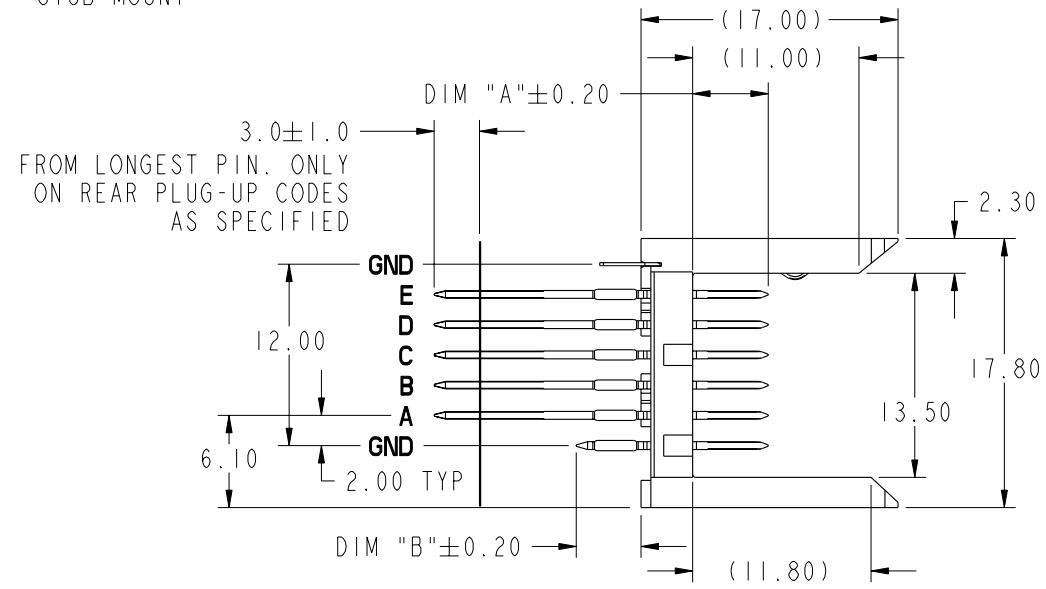
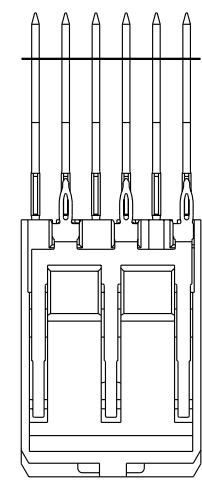
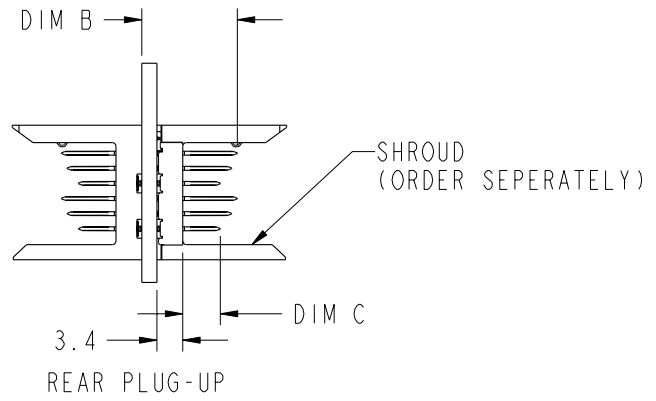
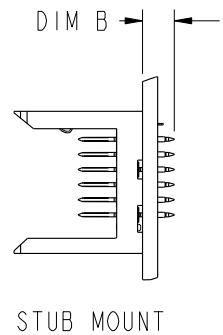


PRODUCT NUMBER
74817-XZZZ
74817-XZZZLF



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mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX ± .01				COPY		title		code
AN	V06-0544	DCH	2006-06-09		.XXX ± .005				projection		HEADER - SELECT LOAD		
AP	V06-0702	LP	2006/07/28		.XXXX ± .0020						STR. P.F. STD. 5x6		
-	-	-	-	angles	0° ± 2°						product family		sheet
AJ	V04-0195	LP	2/27/04	dr	K.BELL	3/29/00		MM		METRAL 1000		1 of 9	
AK	V04-0399	DAI	05/24/04	engr	M. HAHN	3/29/00		← MM →		size			
AL	V05-0118	TAB	02/10/05	chr	M. HAHN	3/29/00		scale		74817			
AM	V05-0806	VS	09/13/05	appd	M. HAHN	3/29/00		2:1		A		cage code	
sheet index	revision sheet	AP	AP	AP	AP	AP	AP	AP	AP				4
		1	2	3	4	5	6	7	8	9			

**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' **

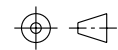
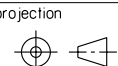

		DIM B								
		4.30	12.20	12.95	13.70	14.45	15.20	15.70	16.40	17.10
MIN THICKNESS		1.60	2.95	3.25	4.00	4.75	5.50	6.00	6.70	7.40
MAX THICKNESS		NONE	4.20	4.95	5.70	6.45	7.20	7.70	8.40	9.10

* 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.

PRODUCT NUMBER	CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
	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		
					.XXXX ±.0020				
				angles	0° ±2°				title HEADER - SELECT LOAD STR. P.F. STD. 5x6 product family METRAL 1000 size dwg no 74817 sheet 2
				dr	K. BELL	3/29/00	MM		
				engr	M. HAHN	3/29/00			
				chr	M. HAHN	3/29/00	scale		
				appd	M. HAHN	3/29/00	2:1		
sheet index	revision sheet								



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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
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

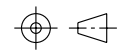

RESTRICTION ON CURCUIT BOARD THICKNESS RANGE
FOR PIN POSITION 'GND' **

		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.

PRODUCT NUMBER	CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
	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

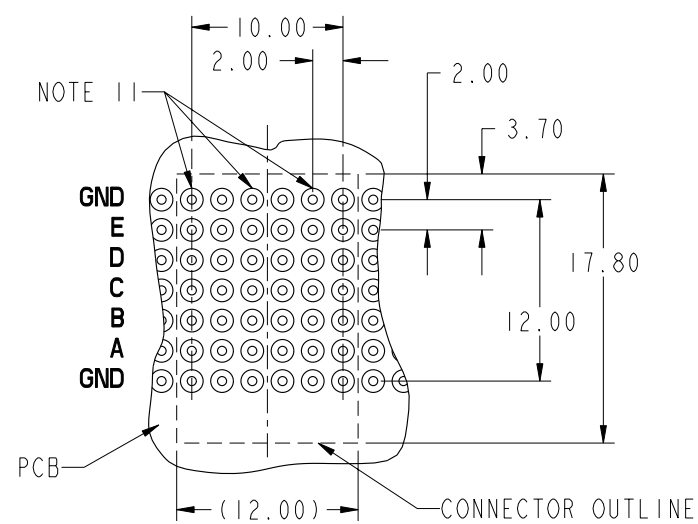
mat'l code				tolerances unless otherwise specified		CUSTOMER		FCj www.fciconnect.com	
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY		
AP	-	-	-		.XXX ±.005		projection		
				angles	.XXXX ±.0020				
					0° ±2°				
				dr	K. BELL	3/29/00	product family METRAL 1000		
				engr	M. HAHN	3/29/00	code	213	
				chr	M. HAHN	3/29/00	size	dwg no	
				appd	M. HAHN	3/29/00	scale	74817	
sheet index	revision sheet						A	3	

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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



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



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1 2							3							4																	
METRAL P/N	ROW	CONTACT CODE						METRAL P/N	ROW	CONTACT CODE						METRAL P/N	ROW	CONTACT CODE													
74817-X001 ** SEE NOTE 17 LEAD FREE OPTION	E	4	3	3	1	1	1	74817-X006 ** SEE NOTE 17 LEAD FREE OPTION	E	19	3	3	3	2	1	74817-X011 *RPU SEE NOTE 17 LEAD FREE OPTION	E	5	5	5	5	5	5	74817-X016 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	2
	D	4	3	3	1	1	1		D	19	3	3	3	2	1		D	5	5	5	5	5	5		D	2	2	2	2	2	2
	C	4	3	3	1	1	1		C	19	3	3	3	2	1		C	5	5	5	5	5	5		C	4	4	4	4	4	4
	B	4	3	3	1	1	1		B	19	3	3	3	2	1		B	5	5	5	5	5	5		B	1	2	2	2	2	2
	A	4	3	3	1	1	1		A	19	3	3	3	2	1		A	5	5	5	5	5	5		A	2	2	2	2	2	2
GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	2	2	2	2	2	2				
74817-X002 ** SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	1	3	4	74817-X007 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	20	7	7	7	6	5	74817-X012 *RPU SEE NOTE 17 LEAD FREE OPTION	E	2	2	6	6	6	6	74817-X017 SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	1	1	1
	D	1	1	1	1	3	4		D	20	7	7	7	6	5		D	2	2	6	6	6	6		D	1	1	1	1	1	1
	C	1	1	1	1	3	4		C	20	7	7	7	6	5		C	2	2	6	6	6	6		C	3	3	3	3	3	3
	B	1	1	1	1	3	4		B	20	7	7	7	6	5		B	2	2	6	6	6	6		B	1	1	1	1	1	1
	A	1	1	1	1	3	4		A	20	7	7	7	6	5		A	2	2	6	6	6	6		A	1	1	1	1	1	1
GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1				
74817-X003 ** SEE NOTE 17 LEAD FREE OPTION	E	2	3	2	2	4	19	74817-X008 ** SEE NOTE 17 LEAD FREE OPTION	E	19	3	3	3	3	3	74817-X013 *RPU SEE NOTE 17 LEAD FREE OPTION	E	6	6	6	6	2	2	74817-X018 SEE NOTE 17 LEAD FREE OPTION	E	3	2	2	1	1	1
	D	2	3	2	2	4	19		D	19	3	3	3	3	3		D	6	6	6	6	2	2		D	3	2	2	1	1	1
	C	2	3	2	2	4	19		C	19	3	3	3	3	3		C	6	6	6	6	2	2		C	3	2	2	3	3	3
	B	2	3	2	2	4	19		B	19	3	3	3	3	3		B	6	6	6	6	2	2		B	3	2	2	1	1	1
	A	2	3	2	2	4	19		A	19	3	3	3	3	3		A	6	6	6	6	2	2		A	3	2	2	1	1	1
GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1				
74817-X004 ** SEE NOTE 17 LEAD FREE OPTION	E	3	2	2	4	19	2	74817-X009 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	20	7	7	7	7	7	74817-X014 *RPU SEE NOTE 17 LEAD FREE OPTION	E	10	10	10	10	10	10	74817-X019 SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	2	2	3
	D	3	2	2	4	19	2		D	20	7	7	7	7	7		D	10	10	10	10	10	10		D	1	1	1	2	2	3
	C	3	2	2	4	19	2		C	20	7	7	7	7	7		C	10	10	10	10	10	10		C	3	3	3	2	2	3
	B	3	2	2	4	19	2		B	20	7	7	7	7	7		B	10	10	10	10	10	10		B	1	1	1	2	2	3
	A	3	2	2	4	19	2		A	20	7	7	7	7	7		A	10	10	10	10	10	10		A	1	1	1	2	2	3
GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1	1				
74817-X005 *RPU SEE NOTE 17 LEAD FREE OPTION	E	6	6	6	6	6	6	74817-X010 SEE NOTE 17 LEAD FREE OPTION	E	3	3	3	3	3	3	74817-X015 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	2	74817-X023 ** SEE NOTE 17 LEAD FREE OPTION	E	1	3	3	3	1	1
	D	6	6	6	6	6	6		D	2	3	3	3	3	3		D	2	2	2	2	2	2		D	1	3	3	3	1	1
	C	6	6	6	6	6	6		C	3	3	3	3	3	3		C	4	4	4	4	4	4		C	1	1	1	1	1	19
	B	6	6	6	6	6	6		B	3	3	3	3	3	3		B	2	2	2	2	2	2		B	1	1	1	1	1	19
	A	6	6	6	6	6	6		A	3	3	3	3	3	3		A	2	2	2	2	2	2		A	1	1	1	19	19	19
GND	30	30	30	30	30	30	GND	1	1	1	1	1	1	GND	2	2	2	2	2	2	GND	1	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

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

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METRAL P/N							CONTACT CODE																				
ROW	1	2	3	4	5	6	ROW	1	2	3	4	5	6														
74817-X024 *RPU SEE NOTE 17 LEAD FREE OPTION	E	5	5	5	5	5	74817-X029 SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	1	1	74817-X034 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	5	20	5	5	5	74817-X039 ** SEE NOTE 17 LEAD FREE OPTION	E	1	1	1	1	1
	D	5	5	5	5	5		D	1	1	1	1	2		D	5	20	5	5	5		D	1	1	1	1	1
	C	5	5	5	5	5		C	1	1	1	1	1		C	5	20	5	5	5		C	1	1	1	1	1
	B	5	5	5	5	5		B	1	1	1	1	1		B	5	20	5	5	5		B	1	1	1	1	1
	A	5	5	5	5	5		A	1	1	3	1	3		A	5	20	5	5	5		A	1	4	1	1	1
GND	1	1	1	1	1	GND	1	1	1	1	1	GND	1	1	1	1	1	GND	1	1	1	1	1				

METRAL P/N							CONTACT CODE																				
ROW	1	2	3	4	5	6	ROW	1	2	3	4	5	6														
74817-X025 ** SEE NOTE 17 LEAD FREE OPTION	E	1	19	1	1	1	74817-X030 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X035 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X040 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	8	6	6	6	6
	D	1	19	1	1	1		D	2	2	2	2	2		D	2	2	2	2	2		D	8	6	6	6	6
	C	1	19	1	1	1		C	19	19	19	19	19		C	3	3	3	3	3		C	6	6	6	6	6
	B	1	19	1	1	1		B	2	2	2	2	2		B	1	2	2	2	2		B	8	6	6	6	6
	A	1	19	1	1	1		A	3	2	3	2	1		A	1	2	2	2	2		A	8	6	6	6	6
GND	1	1	1	1	1	GND	1	1	1	1	1	GND	1	1	1	1	1	GND	6	6	6	6	6				

METRAL P/N							CONTACT CODE																					
ROW	1	2	3	4	5	6	ROW	1	2	3	4	5	6															
74817-X026 *RPU SEE NOTE 17 LEAD FREE OPTION	E	2	2	49	49	49	74817-X031 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X036 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X041 ** SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	
	D	2	2	49	49	49		D	2	2	2	2	2		D	2	2	2	2	2		D	2	2	2	2	2	
	C	2	2	49	49	49		C	19	19	19	19	19		C	1	1	1	1	3		2	C	2	2	2	2	4
	B	2	2	49	49	49		B	2	2	2	2	2		B	1	1	2	2	2		2	B	2	2	2	2	2
	A	2	2	49	49	49		A	1	3	2	3	2		A	2	2	2	2	2		2	A	2	2	2	2	4
GND	1	1	1	1	1	GND	1	1	1	1	1	GND	1	1	1	1	1	1	GND	1	1	1	1	1				

METRAL P/N							CONTACT CODE																				
ROW	1	2	3	4	5	6	ROW	1	2	3	4	5	6														
74817-X027 *RPU SEE NOTE 17 LEAD FREE OPTION	E	49	49	49	49	2	74817-X032 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X037 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X042 *RPU ** SEE NOTE 17 LEAD FREE OPTION	E	8	6	6	6	6
	D	49	49	49	49	2		D	2	2	2	2	2		D	2	2	2	2	2		D	8	6	6	6	6
	C	49	49	49	49	2		C	19	19	19	19	19		C	1	2	2	2	2		C	8	6	6	6	6
	B	49	49	49	49	2		B	2	2	2	2	2		B	1	1	1	1	1		B	8	6	6	6	6
	A	49	49	49	49	2		A	2	2	2	2	1		A	2	2	2	2	2		A	8	6	6	6	6
GND	1	1	1	1	1	GND	1	1	1	1	1	GND	1	1	1	1	1	GND	30	30	30	30	30				

METRAL P/N							CONTACT CODE																				
ROW	1	2	3	4	5	6	ROW	1	2	3	4	5	6														
74817-X028 *RPU SEE NOTE 17 LEAD FREE OPTION	E	49	49	49	49	49	74817-X033 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X038 SEE NOTE 17 LEAD FREE OPTION	E	2	2	2	2	2	74817-X043 ** SEE NOTE 17 LEAD FREE OPTION	E	3	3	3	3	3
	D	49	49	49	49	49		D	2	2	2	2	2		D	2	2	2	2	2		D	3	3	3	3	3
	C	49	49	49	49	49		C	19	19	19	19	19		C	2	2	2	2	2		C	3	3	3	3	3
	B	49	49	49	49	49		B	2	2	2	2	2		B	2	2	2	2	2		B	3	3	3	3	3
	A	49	49	49	49	49		A	1	2	2	2	3		A	2	2	3	2	2		A	19	19	19	19	19
GND	1	1	1	1	1	GND	1	1	1	1	1	GND	-	-	-	-	-	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

mat'l code				tolerances unless otherwise specified		CUSTOMER	FCJ	
ltr	ecr no.	dr	date	linear	angles	COPY	projection	title
AP	-	-	-					HEADER - SELECT LOAD STR. P.F. STD. 5x6
								product family METRAL 1000
				dr	K. BELL	3/29/00		code 213
				enrg	M. HAHN	3/29/00		sheet 6
				chr	M. HAHN	3/29/00		
				appd	M. HAHN	3/29/00		
sheet index	revision sheet							

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X044 *RPU ** SEE NOTE 17 LEAD FREE OPTION	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	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X048 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	4
	B	2	2	2	2	2	2
	A	2	2	2	2	2	2
GND	2	2	2	2	2	2	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X052 ***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	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X056 SEE NOTE 17 LEAD FREE OPTION	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	-	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X045 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	1	2	2	2	2
GND	1	1	1	1	1	1	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X049 SEE NOTE 17 LEAD FREE OPTION	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	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X053 ***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	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X046 *RPU SEE NOTE 17 LEAD FREE OPTION	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	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X050 ** SEE NOTE 17 LEAD FREE OPTION	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
	A	2	1	2	2	2	4
GND	2	2	2	2	2	2	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X054 ***RPU SEE NOTE 17 LEAD FREE OPTION	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	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X047 SEE NOTE 17 LEAD FREE OPTION	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	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X051 ** SEE NOTE 17 LEAD FREE OPTION	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	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X055 ** SEE NOTE 17 LEAD FREE OPTION	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	-	

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

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com	
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY		title HEADER - SELECT LOAD STR. P.F. STD. 5x6
AP	-	-	-		.XXX ±.005		projection		
					.XXX ±.0020				
				angles	0° ±2°				product family METRAL 1000 code 213 sheet 7
				dr	K. BELL	3/29/00	scale		
				engr	M. HAHN	3/29/00	2:1		
				chr	M. HAHN	3/29/00	A		size 74817
				appd	M. HAHN	3/29/00			
sheet index	revision sheet								



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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



mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com			
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY						
AP	-	-	-		.XXX ±.005		projection					title	
					.XXX ±.0020							HEADER - SELECT LOAD	
				angles	0° ±2°				STR. P.F. STD. 5x6				
				dr	K. BELL	3/29/00	MM		product family		METRAL 1000	code	
				engr	J. VOLSTORF	05-23-01	← MM →		size		dwg no	213	
				chr	M. HAHN	3/29/00	scale		A		74817	sheet	
				appd	M. HAHN	3/29/00	2:1				8		
sheet index	revision sheet												



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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-XYYYLF



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mat'l code		--	tolerances unless otherwise specified		CUSTOMER	www.fciconnect.com	
ltr	ecr no.	dr	date	linear	COPY		title HEADER - SELECT LOAD STR. P.F. STD. 5x6
AP	--	--	--		.XX ±.01	projection	
				angles	.XXX ±.005		product family METRAL 1000 code 213 size dwg no 74817 sheet 9
					.XXXX ±.0020		
				dr	K. BELL	3/29/00	scale 1:1 A
				engr	M. HAHN	3/29/00	
				chr	M. HAHN	3/29/00	
				appd	M. HAHN	3/29/00	
sheet index	revision sheet						