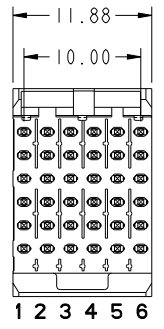
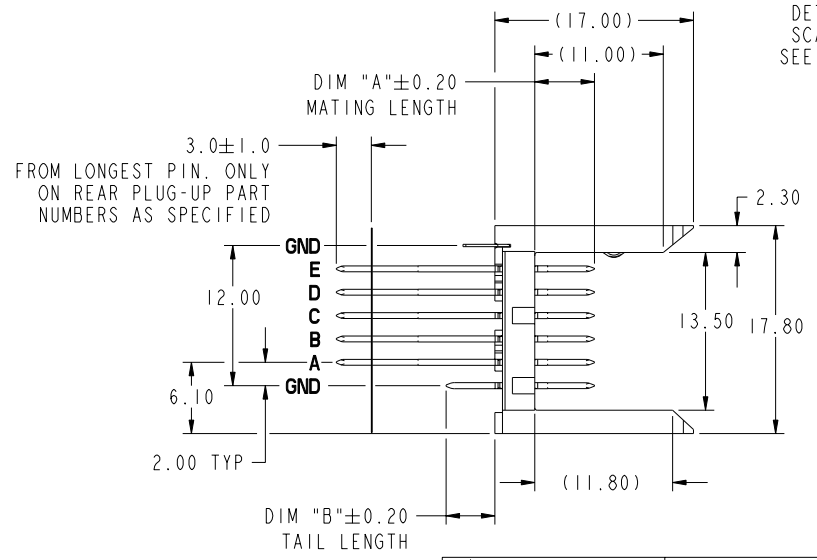
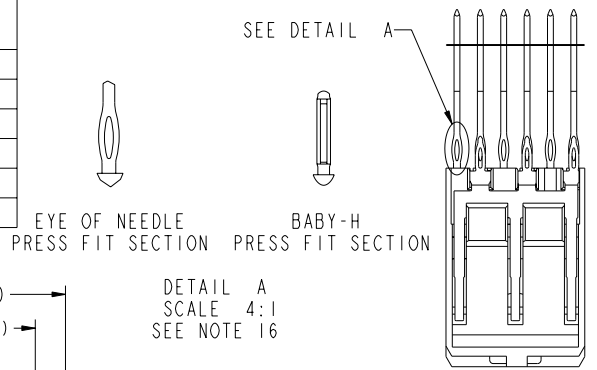




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PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	APPLICATION	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
74817-1ZZZ	TELCORDIA CO	STANDARD	84818-104
74817-1ZZZLF		LEAD FREE	84818-104LF
74817-5ZZZ	TELCORDIA UE	STANDARD	84818-504
74817-5ZZZLF		LEAD FREE	84818-504LF
74817-9ZZZ	TELCORDIA CO	STANDARD	84818-104
74817-9ZZZLF		LEAD FREE	84818-104LF



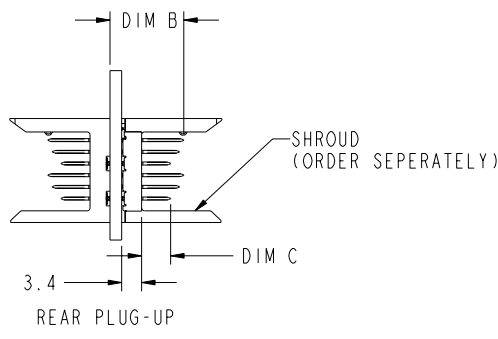
mat'l code: SEE NOTE 5				tolerances unless otherwise specified				CUSTOMER		FCJ		www.fcjconnect.com	
ltr	ecm no.	dr	date	0.X ± 0.3				COPY		title		code	
AW	V08-0141	LP	2008-03-28	0.XX ± 0.13				projection		VERTICAL SIGNAL HDR 5 ROW		213	
-	-	-	-	.XXX ± 0.051				MM		P.F. 30 POS. SELECT LOAD STD.		1 of 9	
AR	V07-0187	DCH	2007-04-24	0° $\pm 2°$				scale		product family		METRAL 1000	
AS	V07-0676	HTB	2007-11-07	dr	K. BELL	2000-03-29	2:1		size		74817		
AT	V07-0697	LP	2007-11-29	enr	M. HAHN	2000-03-29	A		dwg no		213		
AU	V08-0002	HTB	2008-01-09	chr	M. HAHN	2000-03-29					1 of 9		
AV	V08-0048	LP	2008-2-1	oppd	M. HAHN	2000-03-29							
sheet index	revision	AW	AW	AW	AW	AW	AW	AW	AW	AW	AW	AW	
	sheet	1	2	3	4	5	6	7	8	9			

Pro/E 3 cage code 22526 4

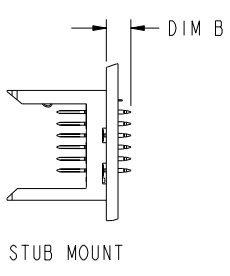
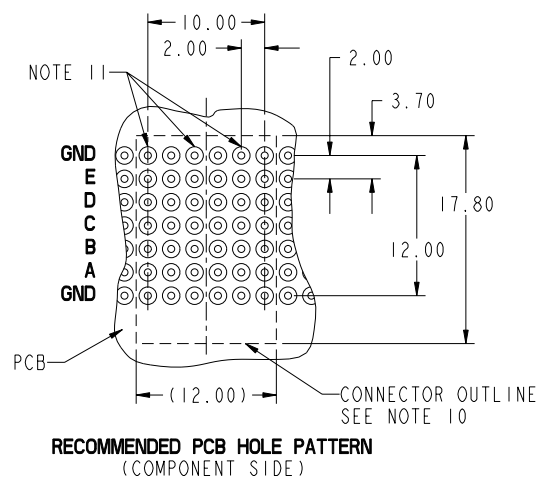
PDM: Rev:AW STATUS:Released Printed: Feb 20, 2010

PRODUCT NUMBER
SEE SHEET 1

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



mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCJ	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	COPY		www.fcjconnect.com	
AW					0.XX ± 0.13	projection		title	
				angles	.XXX ± .051	MM		VERTICAL SIGNAL HDR 5 ROW	
				dr	0° ± 2°	scale		P.F. 30 POS. SELECT LOAD STD.	
				enr		2:1		product family	
				chr	K. BELL 2000-03-29	A		METRAL 1000	
				oppd	M. HAHN 2000-03-29			size	
					M. HAHN 2000-03-29			dwg no	
sheet index	revision sheet							74817	
								code	
								213	
								sheet	
								2	
								cage code	
								22526	



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REV E - 2006-04-18

PDM: Rev:AW STATUS:Released Printed: Feb 20, 2010



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PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES METRAL 1000 RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
01*	5.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
22		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
30		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
05		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
35		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
48		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
40		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
65		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
09		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
02*		5.75	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44	12.20		2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
31	12.95		2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
06	13.70		2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
36	14.45		3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
49	15.20		3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
25	15.70		4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
66	16.40		5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
10	17.10		5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
03*	6.50		4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
45		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
32		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
07		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
37		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
50		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
41		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
24		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
11		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 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.

mat'l code: SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCJ www.fcjconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3	projection	title
AW					.XX ±0.13		VERTICAL SIGNAL HDR 5 ROW
				angles	.XXX ±.051		P.F. 30 POS. SELECT LOAD STD.
				dr	0° ±2°	scale	product family
				enr		2:1	METRAL 1000
				chr	K. BELL 2000-03-29	size	code
				oppd	M. HAHN 2000-03-29	A	213
sheet index	revision sheet					dwg no	3
						74817	



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PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
04*	7.25	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
46		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
33		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
08		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
38		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
51		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
42		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
67		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
12		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
19*		8.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
47	12.20		2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
34	12.95		2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
20	13.70		2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
39	14.45		3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
52	15.20		3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
43	15.70		4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
68	16.40		5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
21	17.10		5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 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.

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	projection	COPY		title		
AW					.XXX ± 0.13				VERTICAL SIGNAL HDR 5 ROW		
				angles	0° ± 2°				P.F. 30 POS. SELECT LOAD STD.		
				dr	K. BELL 2000-03-29	scale			product family		code
				enr	M. HAHN 2000-03-29	1:1			METRAL 1000		213
				chr	M. HAHN 2000-03-29				size		sheet
				oppd	M. HAHN 2000-03-29				74817		4
sheet index	revision sheet								cage code		
									22526		

PDM: Rev:AW

STATUS:Released

Printed: Feb 20, 2010



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METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X001 ** SEE NOTE 15 LEAD FREE OPTION	E	04	03	03	01	01	01
	D	04	03	03	01	01	01
	C	04	03	03	01	01	01
	B	04	03	03	01	01	01
	A	04	03	03	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X002 ** SEE NOTE 15 LEAD FREE OPTION	E	01	01	01	01	03	04
	D	01	01	01	01	03	04
	C	01	01	01	01	03	04
	B	01	01	01	01	03	04
	A	01	01	01	01	03	04
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X003 ** SEE NOTE 15 LEAD FREE OPTION	E	02	03	02	02	04	19
	D	02	03	02	02	04	19
	C	02	03	02	02	04	19
	B	02	03	02	02	04	19
	A	02	03	02	02	04	19
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X004 ** SEE NOTE 15 LEAD FREE OPTION	E	03	02	02	04	19	02
	D	03	02	02	04	19	02
	C	03	02	02	04	19	02
	B	03	02	02	04	19	02
	A	03	02	02	04	19	02
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X005 *RPU SEE NOTE 15 LEAD FREE OPTION	E	06	06	06	06	06	06
	D	06	06	06	06	06	06
	C	06	06	06	06	06	06
	B	06	06	06	06	06	06
	A	06	06	06	06	06	06
GND	30	30	30	30	30	30	

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 3.25 - 4.55

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X006 ** SEE NOTE 15 LEAD FREE OPTION	E	19	03	03	03	02	01
	D	19	03	03	03	02	01
	C	19	03	03	03	02	01
	B	19	03	03	03	02	01
	A	19	03	03	03	02	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X007 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	20	07	07	07	06	05
	D	20	07	07	07	06	05
	C	20	07	07	07	06	05
	B	20	07	07	07	06	05
	A	20	07	07	07	06	05
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 2.30 (2.95) - 5.30 (NOT A STANDARD METRAL 1000 APPL.). CANNOT BE MATED TO A METRAL 4000 RECEPTACLE

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X008 ** SEE NOTE 15 LEAD FREE OPTION	E	19	03	03	03	03	03
	D	19	03	03	03	03	03
	C	19	03	03	03	03	03
	B	19	03	03	03	03	03
	A	19	03	03	03	03	03
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X009 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	20	07	07	07	07	07
	D	20	07	07	07	07	07
	C	20	07	07	07	07	07
	B	20	07	07	07	07	07
	A	20	07	07	07	07	07
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 2.30 (2.95) - 5.30 (NOT A STANDARD METRAL 1000 REAR PLUG UP APPL.). CANNOT BE MATED TO A METRAL 4000.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X010 SEE NOTE 15 LEAD FREE OPTION	E	03	03	03	03	03	03
	D	02	03	03	03	03	03
	C	03	03	03	03	03	03
	B	03	03	03	03	03	03
	A	03	03	03	03	03	03
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X011 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	05	05	05	05	05	05
	D	05	05	05	05	05	05
	C	05	05	05	05	05	05
	B	05	05	05	05	05	05
	A	05	05	05	05	05	05
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 2.30 (2.95) - 5.30 FOR METRAL 1000 RECEPTACLE (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (3.30) - 5.30 FOR METRAL 4000 APPL.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X012 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	02	02	06	06	06	06
	D	02	02	06	06	06	06
	C	02	02	06	06	06	06
	B	02	02	06	06	06	06
	A	02	02	06	06	06	06
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 2.30 (2.95) - 5.30 FOR METRAL 1000 RECEPTACLE (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (3.30) - 5.30 FOR METRAL 4000 APPL.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X013 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	06	06	06	06	02	02
	D	06	06	06	06	02	02
	C	06	06	06	06	02	02
	B	06	06	06	06	02	02
	A	06	06	06	06	02	02
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 2.30 (2.95) - 5.30 FOR METRAL 1000 RECEPTACLE (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (3.30) - 5.30 FOR METRAL 4000 APPL.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X014 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	10	10	10	10	10	10
	D	10	10	10	10	10	10
	C	10	10	10	10	10	10
	B	10	10	10	10	10	10
	A	10	10	10	10	10	10
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 5.70 - 8.70 FOR METRAL 1000 APPL. (NOT A STANDARD METRAL 1000 APPL.) AND 6.70 - 8.70 FOR A METRAL 4000 APPLICATION.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X015 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	04	04	04	04	04
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
GND	02	02	02	02	02	02	

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

mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI	
ltr	ecn no.	dr	date	linear	0.X ± 0.3	projection	www.fciconnect.com		title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.
AW				angles	.xxx ± .051		product family METRAL 1000		
				dr	0° ± 2°	MM	size	code	213
				enr	K. BELL 2000-03-29	scale	dwg no	sheet	5
				ctr	M. HAHN 2000-03-29	2:1	74817		
				oppd	M. HAHN 2000-03-29				
sheet index	revision	sheet							



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METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X016 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	04	04	04	04	04
	B	01	02	02	02	02	01
	A	02	02	02	02	02	02
GND	02	02	02	02	02	02	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X017 SEE NOTE 15 LEAD FREE OPTION	E	01	01	01	01	01	01
	D	01	01	01	01	01	01
	C	03	03	03	03	03	03
	B	01	01	01	01	01	01
	A	01	01	01	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X018 SEE NOTE 15 LEAD FREE OPTION	E	03	02	02	01	01	01
	D	03	02	02	01	01	01
	C	03	02	02	03	03	03
	B	03	02	02	01	01	01
	A	03	02	02	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X019 SEE NOTE 15 LEAD FREE OPTION	E	01	01	01	02	02	03
	D	01	01	01	02	02	03
	C	03	03	03	02	02	03
	B	01	01	01	02	02	03
	A	01	01	01	02	02	03
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X023 ** SEE NOTE 15 LEAD FREE OPTION	E	01	03	03	03	01	01
	D	01	03	03	03	01	19
	C	01	01	01	01	01	19
	B	01	01	01	01	01	19
	A	01	01	01	19	19	19
GND	01	01	01	01	01	01	

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

METRAL P/N	ROW	CONTACT CODE						PCB THICKNESS RANGE FOR REAR PLUG UP APPL. : 2.30 (2.95) - 5.30 FOR METRAL 1000 APPL. (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (3.30) - 5.30 FOR METRAL 4000 RECEPTACLE APPLICATION
		1	2	3	4	5	6	
74817-X024 *RPU SEE NOTE 15 LEAD FREE OPTION	E	05	05	05	05	05	05	
	D	05	05	05	05	05	05	
	C	05	05	05	05	05	05	
	B	05	05	05	05	05	05	
	A	05	05	05	05	05	05	
GND	01	01	01	01	01	01		

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X025 ** SEE NOTE 15 LEAD FREE OPTION	E	01	19	01	01	01	01
	D	01	19	01	01	01	01
	C	01	19	01	01	01	01
	B	01	19	01	01	01	01
	A	01	19	01	01	01	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE						PCB THICKNESS RANGE FOR REAR PLUG UP APPL. : 3.80 - 6.80 FOR METRAL 1000 RECEPTACLE APPL. (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (4.80) - 6.80 FOR METRAL 4000 APPLICATIONS
		1	2	3	4	5	6	
74817-X026 *RPU SEE NOTE 15 LEAD FREE OPTION	E	02	02	49	49	49	49	
	D	02	02	49	49	49	49	
	C	02	02	49	49	49	49	
	B	02	02	49	49	49	49	
	A	02	02	49	49	49	49	
GND	01	01	01	01	01	01		

METRAL P/N	ROW	CONTACT CODE						PCB THICKNESS RANGE FOR REAR PLUG UP APPL. : 3.80 - 6.80 FOR METRAL 1000 RECEPTACLE APPL. (NOT A STANDARD METRAL 1000 APPL.) AND 2.30 (4.80) - 6.80 FOR METRAL 4000 APPLICATIONS
		1	2	3	4	5	6	
74817-X027 *RPU SEE NOTE 15 LEAD FREE OPTION	E	49	49	49	49	02	02	
	D	49	49	49	49	02	02	
	C	49	49	49	49	02	02	
	B	49	49	49	49	02	02	
	A	49	49	49	49	02	02	
GND	01	01	01	01	01	01		

METRAL P/N	ROW	CONTACT CODE						PCB THICKNESS RANGE FOR REAR PLUG UP APPL. : 3.80 - 6.80 FOR METRAL 1000 APPLICATIONS. AND 4.80 - 6.80 FOR METRAL 4000 APPLICATIONS
		1	2	3	4	5	6	
74817-X028 *RPU SEE NOTE 15 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	01	01	01	01	01	01		

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X029 SEE NOTE 15 LEAD FREE OPTION	E	01	01	01	01	01	01
	D	01	01	01	01	01	02
	C	01	01	01	01	01	01
	B	01	01	01	01	01	01
	A	01	01	03	01	01	03
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X030 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	03	02	03	02	02	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X031 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	01	03	02	03	02	02
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X032 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	02	02	02	02	02	01
GND	01	01	01	01	01	01	

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X033 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	19	19	19	19	19	19
	B	02	02	02	02	02	02
	A	01	02	02	02	02	03
GND	01	01	01	01	01	01	

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecr no.	dr	date	linear	0.X ± 0.3	projection	COPY	title	VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.		
AW				angles	0.XX ± 0.13			product family	METRAL 1000		code
				dr	.XXX ± .051			size	dwg no		213
				enr	0° ± 2°	scale	2:1	A	74817		sheet
				ctr	K. BELL 2000-03-29						6
				oppd	M. HAHN 2000-03-29						
sheet index	revision	sheet									



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METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X034 *RPU ** SEE NOTE 15 LEAD FREE OPTION	E	05	20	05	05	05	05
	D	05	20	05	05	05	05
	C	05	20	05	05	05	05
	B	05	20	05	05	05	05
	A	05	20	05	05	05	05
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 2.30 (2.95) - 5.30 (NOT A STANDARD METRAL 1000 APPLICATION). CANNOT BE MATED TO A METRAL 4000 RECEPTACLE.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X039 ** SEE NOTE 15 LEAD FREE OPTION	E	01	01	01	01	01	01
	D	01	01	01	01	01	01
	C	01	01	01	01	01	01
	B	01	01	01	01	01	01
	A	01	04	01	01	01	01
GND	01	01	01	01	01	01	

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 4.00 - 5.30. CANNOT BE MATED TO A METRAL 4000 RECEPTACLE.

METRAL P/N	ROW	CONTACT CODE					
		1	2	3	4	5	6
74817-X044 *RPU ** SEE NOTE 15 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	

PCB THICKNESS RANGE FOR REAR PLUG UP APPL.: 2.95 - 3.80 FOR MATING TO METRAL 1000 RECEPTACLE. CANNOT BE MATED TO METRAL 4000 RECEPTACLES.

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

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCI	
lfr	ecr no.	dr	date	linear	0.X ± 0.3	projection	COPY	www.fciconnect.com	
AW				angles	.xxx ± .051		title	VERTICAL SIGNAL HDR 5 ROW	
				dr	0° ± 2°		P.F. 30 POS. SELECT LOAD STD.	product family METRAL 1000	
				enr	K. BELL 2000-03-29	scale	size	dwg no	code
				ctr	M. HAHN 2000-03-29	2:1	A	74817	213
				oppd	M. HAHN 2000-03-29				sheet
sheet index	revision								7
	sheet								


REV E - 2006-04-18

PDM: Rev:AW STATUS:Released Printed: Feb 20, 2010

PRODUCT NUMBER
SEE SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FC1 PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FC1 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-V0.
PIN MATERIAL: PHOSPHOR BRONZE
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING OF "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS SnPb.
7. 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

8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLAINT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD. THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.
9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. 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.
11. CURRENT RATING: 1 AMP PER PIN
12. TEMPERATURE RANGE: -55°C TO +105°C
13. P/N 74817-XZZZLF

 - LEAD FREE (OPTIONAL)
 - SELECT LOAD PATTERN
 - PLATING CODE
14. 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.
15. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX.
EXAMPLE: 74817-XYYYLF
16. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE



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mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecm no.	dr	date	linear	0. XX ±0.13	COPY		projection	title	product family	code
AW				angles	.XXX ±.051	MM					
				dr	K. BELL 2000-03-29	scale		size	dwg no	sheet	
				engr	M. HAHN 2000-03-29	1:1					A
				chr	M. HAHN 2000-03-29						
				oppd	M. HAHN 2000-03-29						
sheet index	revision sheet										

PDM: Rev:AW STATUS:Released Printed: Feb 20, 2010

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