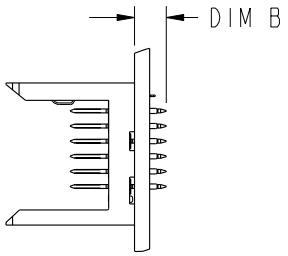
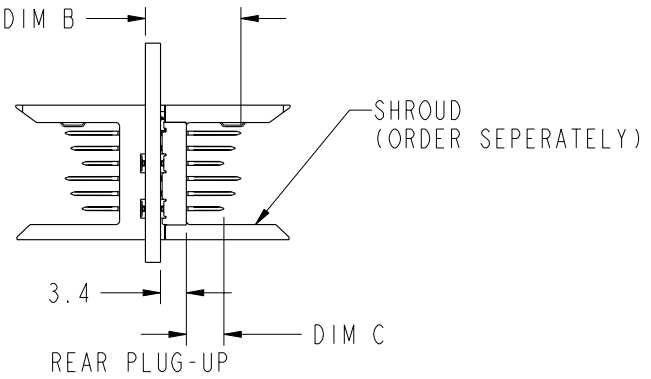
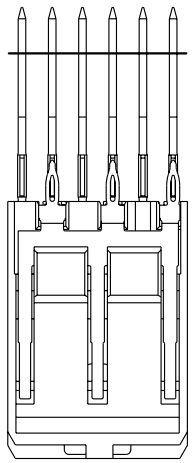
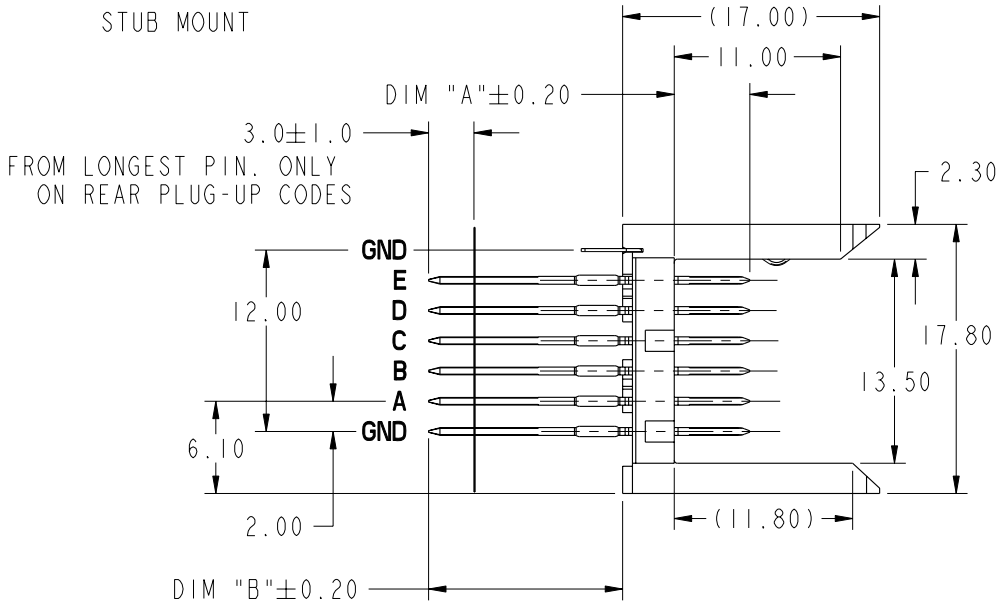
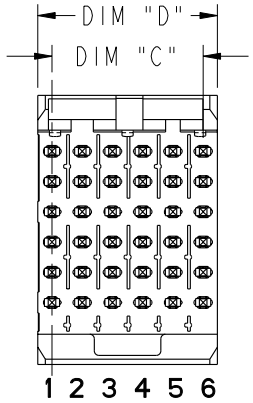
PRODUCT NUMBER	DIM C	DIM D
84817-X01ZZZ	10.00	11.88
84817-X02ZZZ	22.00	23.88
84817-X03ZZZ	34.00	35.88
84817-X04ZZZ	46.00	47.88











PRODUCT NUMBER	DIM C	DIM D
84817-X01ZZZLF	10.00	11.88
84817-X02ZZZLF	22.00	23.88
84817-X03ZZZLF	34.00	35.88
84817-X04ZZZLF	46.00	47.88

mat'l code	--			tolerances unless otherwise specified			
ltr	ecn no.	dr	date				
AC	V06-0569	DCH	2006-06-12	linear	.XX ±.01		
AD	V07-0047	HTB	2007-01-19		.XXX ±.005		
-	-	-	-		.XXXX ±.0020		
-	-	-	-	angles	0° ±2°		
X	V04-0399	DAI	05/24/04	dr	K.BELL	3/29/00	
Y	V04-0758	DAI	07/23/04	engr	M.HAHN	3/29/00	
AA	V05-0735	TAB	08/05/05	chr	M.HAHN	3/29/00	
AB	V05-0806	VS	09/13/05	appd	M.HAHN	3/29/00	

sheet index	revision									
	sheet	1	2	3	4	5	6	7	8	

CUSTOMER COPY

projection

MM

scale 1:1

FCI www.fciconnect.com

title: HEADER ASS'Y STR. P.F. STD. 5-ROW

product family: METRAL 1000 | code: 213

size: A | dwg no: 84817 | sheet: 1 of 8

cage code: 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:AD STATUS:Released Printed: Feb 06, 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 18 LEAD FREE OPTION	CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
PRODUCT NUMBER	MIN	MAX
84817-XYY002	2.95mm	3.80mm
84817-XYY024	4.00mm	5.30mm
84817-XYY025	*2.30-2.95mm	5.30mm
84817-XYY026	*2.95mm	3.80mm
84817-XYY030	*2.95mm	5.30mm
84817-XYY031	*2.30-5.30mm	7.30mm
84817-XYY032	2.95mm	3.80mm
84817-XYY033	3.25mm	4.95mm
84817-XYY036	*2.30-2.95mm	3.80mm
84817-XYY038	5.50mm	6.80mm
84817-XYY039	4.00mm	5.70mm

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

mat'l code	--			tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY	
AD	-	-	-		.XXX ±.005		projection	title: HEADER ASS'Y STR. P.F. STD. 5-ROW
					.XXXX ±.0020			
				angles	0° ±2°			
				dr	K.BELL	3/29/00	MM	product family: METRAL 1000 code: 213
				engr	M.HAHN	3/29/00		
				chr	M.HAHN	3/29/00	scale 1:1	size: A dwg no: 84817 sheet: 2
				appd	M.HAHN	3/29/00		
sheet index	revision sheet							cage code: 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:AD STATUS:Released Printed: Feb 06, 2007

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 18 LEAD FREE OPTION	CIRCUIT BOARD THICKNESS RANGE FOR REAR PLUG-UP CODES	
PRODUCT NUMBER	MIN	MAX
84817-XYY002	2.95mm	3.80mm
84817-XYY024	4.00mm	5.30mm
84817-XYY025	*2.30-3.30mm	5.30mm
84817-XYY026	*2.95mm	3.80mm
84817-XYY030	*3.30mm	5.30mm
84817-XYY031	*2.30-5.30mm	7.30mm
84817-XYY032	2.95mm	3.80mm
84817-XYY033	3.30mm	4.95mm
84817-XYY036	*2.30-2.95mm	3.80mm
84817-XYY038	5.50mm	6.80mm
84817-XYY039	4.05mm	5.70mm

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

mat'l code	--			tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date		.XX ±.01		COPY	
AD	-	-	-	linear	.XXX ±.005		projection	title: HEADER ASS'Y STR. P.F. STD. 5-ROW
					.XXXX ±.0020			
				angles	0° ±2°			
				dr	K.BELL	3/29/00	MM	product family: METRAL 1000 code: 213
				engr	M.HAHN	3/29/00		size: A dwg no: 84817 sheet: 3
				chr	M.HAHN	3/29/00	scale: 1:1	
				appd	M.HAHN	3/29/00		
sheet index	revision sheet							cage code: 22526

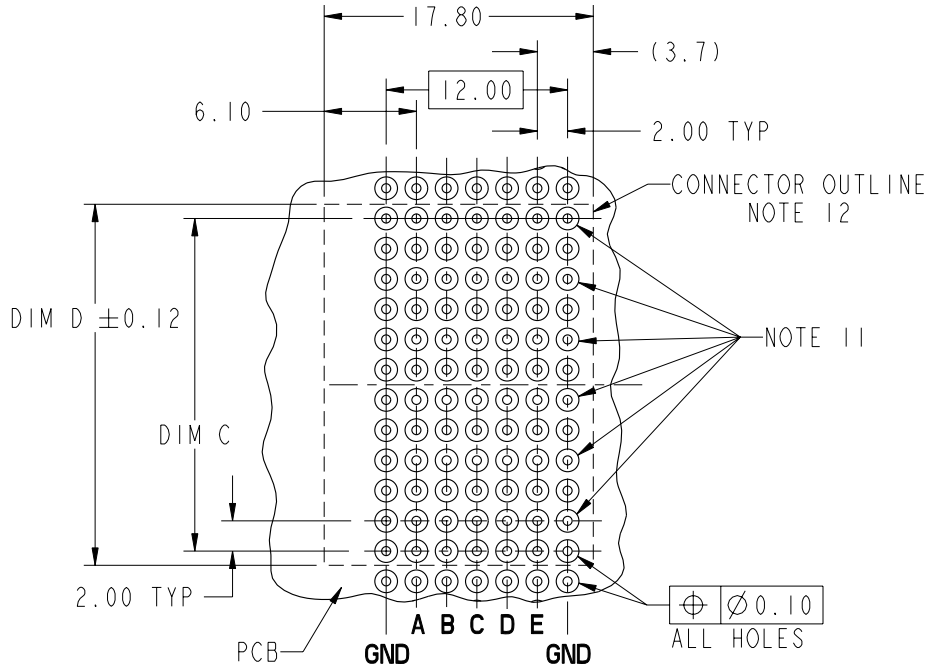
REV E - 2006-04-18

Pro/E

PDM: Rev:AD STATUS:Released Printed: Feb 06, 2007

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 58315 FOR ADDITIONAL PCB INFORMATION



SHOWN FROM HEADER SIDE OF CIRCUIT BOARD
SEE NOTE 13

mat'l code	--	tolerances unless otherwise specified			CUSTOMER	www.fciconnect.com
ltr	ecn no. / dr / date				COPY	
AD	- / - / -	linear	.XX ±.01		projection	title: HEADER ASS'Y STR. P.F. STD. 5-ROW
			.XXX ±.005			
			.XXXX ±.0020			
		angles	0° ±2°		MM	product family: METRAL 1000 / code: 213
		dr	K.BELL	3/29/00		size: A / dwg no: 84817 / sheet: 4
		engr	M.HAHN	3/29/00	scale: 1:1	
		chr	M.HAHN	3/29/00		
		appd	M.HAHN	3/29/00		
sheet index	revision sheet					cage code: 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:AD STATUS:Released Printed: Feb 06, 2007

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY001 SEE NOTE 18 LEAD FREE OPTION	E	1
	D	
	C	
	B	
	A	
	GND	
84817-XYY002 *RPU SEE NOTE 18 LEAD FREE OPTION	E	22
	D	
	C	
	B	
	A	
	GND	
84817-XYY011 SEE NOTE 18 LEAD FREE OPTION	E	2
	D	
	C	
	B	
	A	
	GND	1
84817-XYY021 SEE NOTE 18 LEAD FREE OPTION	E	2
	D	
	C	
	B	
	A	
	GND	
84817-XYY022 SEE NOTE 18 LEAD FREE OPTION	E	2
	D	
	C	
	B	
	A	
	GND	

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY023 SEE NOTE 18 LEAD FREE OPTION	E	2
	D	
	C	4
	B	2
	A	
	GND	
84817-XYY024 *RPU SEE NOTE 18 LEAD FREE OPTION	E	6
	D	
	C	8
	B	6
	A	
	GND	
84817-XYY025 *RPU SEE NOTE 18 LEAD FREE OPTION	E	6
	D	
	C	
	B	
	A	
	GND	1
84817-XYY026 *RPU SEE NOTE 18 LEAD FREE OPTION	E	22
	D	
	C	
	B	
	A	
	GND	1

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY027 *RPU SEE NOTE 18 LEAD FREE OPTION	E	44
	D	
	C	
	B	
	A	
	GND	
84817-XYY028 SEE NOTE 18 LEAD FREE OPTION	E	1
	D	
	C	3
	B	1
	A	
	GND	
84817-XYY029 SEE NOTE 18 LEAD FREE OPTION	E	2
	D	
	C	3
	B	2
	A	
	GND	1
84817-XYY030 *RPU SEE NOTE 18 LEAD FREE OPTION	E	6
	D	
	C	7
	B	6
	A	
	GND	1

*REAR PLUG-UP CODES

ltr	ecn no.	dr	date
AD	-	-	-

mat'l code --

tolerances unless otherwise specified

linear	.XX ±.01	
	.XXX ±.005	
	.XXXX ±.0020	
angles	0° ±2°	
dr	K.BELL	3/29/00
engr	M.HAHN	3/29/00
chr	M.HAHN	3/29/00
appd	M.HAHN	3/29/00

CUSTOMER COPY

projection

MM

scale 1:1

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title: HEADER ASS'Y STR. P.F. STD. 5-ROW

product family: METRAL 1000

code: 213

size: A

dwg no: 84817

sheet: 5

sheet index | revision sheet

cage code: 22526

Pro/E

REV E - 2006-04-18

PDM: Rev:AD STATUS:Released Printed: Feb 06, 2007

SIGNAL PIN TABLES

PRODUCT #	ROW	PIN CODES
84817-XYY031 *RPU SEE NOTE 18 LEAD FREE OPTION	E	25
	D	
	C	2
	B	25
	A	
	GND	2
84817-XYY032 *RPU SEE NOTE 18 LEAD FREE OPTION	E	22
	D	
	C	45
	B	22
	A	
	GND	
84817-XYY033 *RPU SEE NOTE 18 LEAD FREE OPTION	E	6
	D	
	C	
	B	
	A	
	GND	30
84817-XYY034 SEE NOTE 18 LEAD FREE OPTION	E	3
	D	
	C	
	B	
	A	
	GND	2
84817-XYY035 SEE NOTE 18 LEAD FREE OPTION	E	1
	D	
	C	
	B	-
	A	
	GND	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 FCI PUBLICATION 95051I-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCI PUBLICATION 95051I-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.
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
10. 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.
11. 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 : 1 AMP PER PIN
14. TEMPERATURE RANGE : -55°C TO +105°C
15. P/N 84817-X YY ZZZ
    - ZZZ — PIN POSITIONS
    - YY — NUMBER MODULES
    - X — PLATING CODE
16. P/N 84817-X01ZZZ SHOWN.

mat'l code				tolerances unless otherwise specified			CUSTOMER	www.fciconnect.com
ltr	ecn no.	dr	date				COPY	
AD	-	-	-	linear	.XX ±.01		projection	title: HEADER ASS'Y STR. P.F. STD. 5-ROW
					.XXX ±.005			
					.XXXX ±.0020			
				angles	0° ±2°			
				dr	K.BELL	3/29/00	MM	product family: METRAL 1000 code: 213
				engr	M.HAHN	3/29/00		size: A dwg no: 84817 sheet: 6
				chr	M.HAHN	3/29/00	scale: 1:1	
				appd	M.HAHN	3/29/00		
sheet index	revision sheet							cage code: 22526

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY036 *RPU SEE NOTE 18 LEAD FREE OPTION	E	22
	D	
	C	
	B	1
	A	
	GND	22

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY039 *RPU SEE NOTE 18 LEAD FREE OPTION	E	36
	D	
	C	
	B	
	A	
	GND	6

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY037 SEE NOTE 18 LEAD FREE OPTION	E	1
	D	
	C	
	B	
	A	
	GND	2

SIGNAL PIN TABLES		
PRODUCT #	ROW	PIN CODES
84817-XYY038 *RPU SEE NOTE 18 LEAD FREE OPTION	E	49
	D	
	C	
	B	
	A	
	GND	

NOTES CONTINUED

17. 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
(18). FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 84817-XYYYLF

mat'l code				tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY	
AD	-	-	-		.XXX ±.005		projection	title: HEADER ASS'Y STR. P.F. STD. 5-ROW
					.XXXX ±.0020			
				angles	0° ±2°			
				dr	K.BELL	3/29/00	MM	product family: METRAL 1000 code: 213
				engr	M.HAHN	3/29/00		
				chr	M.HAHN	3/29/00	scale 1:1	size: A dwg no: 84817 sheet: 7
				appd	M.HAHN	3/29/00		
sheet index	revision sheet							

cage code 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:AD STATUS:Released Printed: Feb 06, 2007

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
84817-1ZZZ	0.8um Au OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84817-2ZZZ	2.0um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84818-304
84817-3ZZZ	1.3um Au OVER Ni	SnPb OVER Ni	1.3um Au OVER Ni	SnPb OVER Ni	84818-304
84817-5ZZZ	1.3um GXT OVER Ni	SnPb OVER Ni	1.3um GXT OVER Ni	SnPb OVER Ni	84818-504
84817-9ZZZ	0.8um GXT OVER Ni	SnPb OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84817-AZZZ	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	SnPb OVER Ni	84818-104
84817-1ZZZLF	0.8um Au OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
84817-2ZZZLF	2.0um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84818-304LF
84817-3ZZZLF	1.3um Au OVER Ni	Sn OVER Ni	1.3um Au OVER Ni	Sn OVER Ni	84818-304LF
84817-5ZZZLF	1.3um GXT OVER Ni	Sn OVER Ni	1.3um GXT OVER Ni	Sn OVER Ni	84818-504LF
84817-9ZZZLF	0.8um GXT OVER Ni	Sn OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF
84817-AZZZLF	0.8um Au OVER Ni	0.08um Au OVER Ni	0.8um Au OVER Ni	Sn OVER Ni	84818-104LF

mat'l code	--			tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date	linear	.XX ±.01		COPY	
AD	-	-	-		.XXX ±.005		projection	title HEADER ASS'Y STR. P.F. STD. 5-ROW
					.XXXX ±.0020			
				angles	0° ±2°			
				dr	K.BELL	3/29/00	MM	product family METRAL 1000 code 213
				engr	M.HAHN	3/29/00		
				chr	M.HAHN	3/29/00	scale 1:1	size A dwg no 84817 sheet 8
				appd	M.HAHN	3/29/00		
sheet index	revision sheet							

Pro/E

cage code 22526

REV E - 2006-04-18

PDM: Rev:AD STATUS:Released Printed: Feb 06, 2007

Mouser Electronics

Authorized Distributor

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FCI / Amphenol:
84817-201022LF