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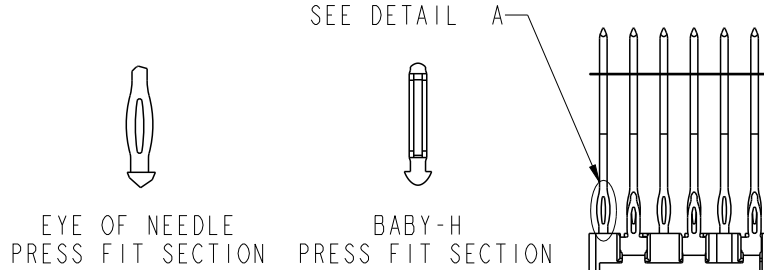
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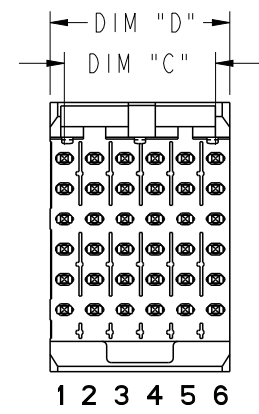
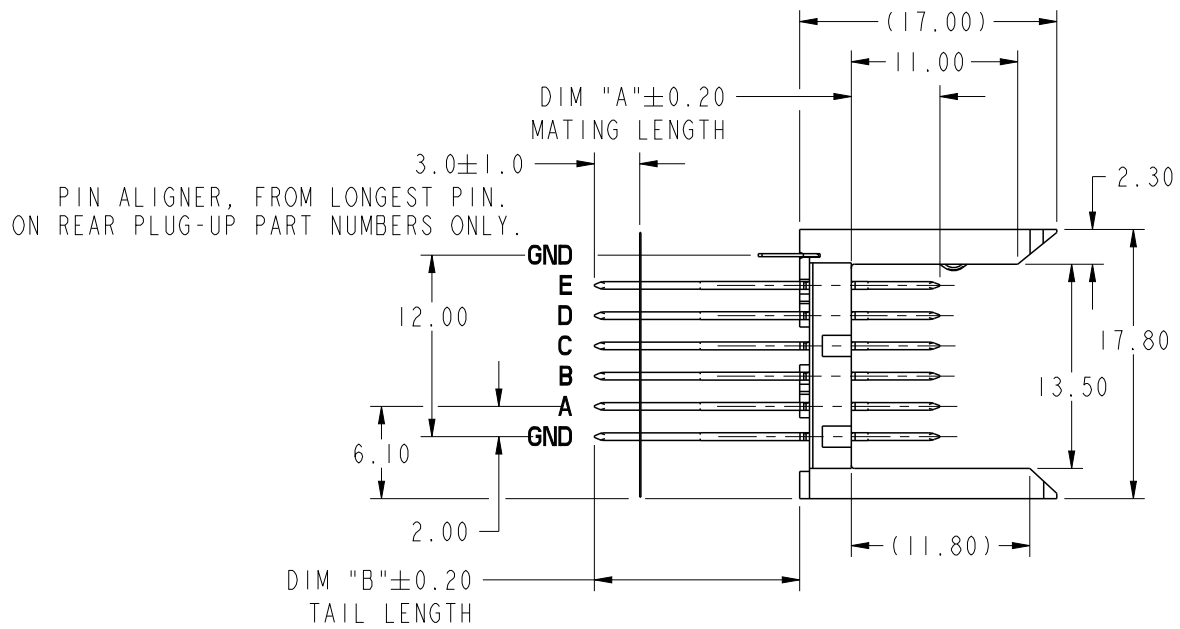
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PRODUCT NUMBER
SEE BELOW AND TABLE ON SHEET 2

84817-X YY ZZZ LF
 BASE NUMBER
 LEAD FREE (OPTIONAL)
 SPECIAL LOAD PATTERN
 SEE SHEETS 7-9
 SIZE, SEE SHEET 2
 PLATING PERFORMANCE
 LEVEL, SEE SHEET 2



DETAIL A
SCALE 4:1
SEE NOTE 17



spec ref -		dr P-Mathew Nebu 2011/05/20		projection 	mm ←→	size A4	scale 2:1
tolerance std ISO 406 ISO 1101		eng B T Varghese 2017/09/09				ecn no ELX-I-27923-1	
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr -				rel level Released	
surface ISO 1302		linear	0.X ±0.1 0.XX ±0.05 0.XXX ±0.020	product family METRAL 1000		rev	
		angular	0° ±2°	Amphenol FCI		84817	
				title VERTICAL SIGNAL HDR 5 ROW PRESS-FIT, SPECIAL LOAD, STD.		dwg no	
				cat. no.		Product - Customer Drw	
						sheet 1 of 7	

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PRODUCT NO.	PLATING PERFORMANCE LEVEL	SHROUD TO USE FOR REAR-PLUG-UP APPLICATIONS	LENGTH DIM D	PIN FIELD DIM C	CONNECTOR SIZE
84817-101ZZZLF	TELCORDIA CO	84818-101LF	11.88	10.00	1 MOD
84817-102ZZZLF		84818-102LF	23.88	22.00	2 MOD
84817-103ZZZLF		84818-103LF	35.88	34.00	3 MOD
84817-104ZZZLF		84818-104LF	47.88	46.00	4 MOD
84817-301ZZZLF	CUSTOMER SPECIAL	84818-301LF	11.88	10.00	1 MOD
84817-302ZZZLF		84818-302LF	23.88	22.00	2 MOD
84817-303ZZZLF		84818-303LF	35.88	34.00	3 MOD
84817-304ZZZLF		84818-304LF	47.88	46.00	4 MOD
84817-501ZZZLF	TELCORDIA UE	84818-501LF	11.88	10.00	1 MOD
84817-502ZZZLF		84818-502LF	23.88	22.00	2 MOD
84817-503ZZZLF		84818-503LF	35.88	34.00	3 MOD
84817-504ZZZLF		84818-504LF	47.88	46.00	4 MOD

PRODUCT NO.	PLATING PERFORMANCE LEVEL	SHROUD TO USE FOR REAR-PLUG-UP APPLICATIONS	LENGTH DIM D	PIN FIELD DIM C	CONNECTOR SIZE
84817-901ZZZLF	TELCORDIA CO	84818-101LF	11.88	10.00	1 MOD
84817-902ZZZLF		84818-102LF	23.88	22.00	2 MOD
84817-903ZZZLF		84818-103LF	35.88	34.00	3 MOD
84817-904ZZZLF		84818-104LF	47.88	46.00	4 MOD

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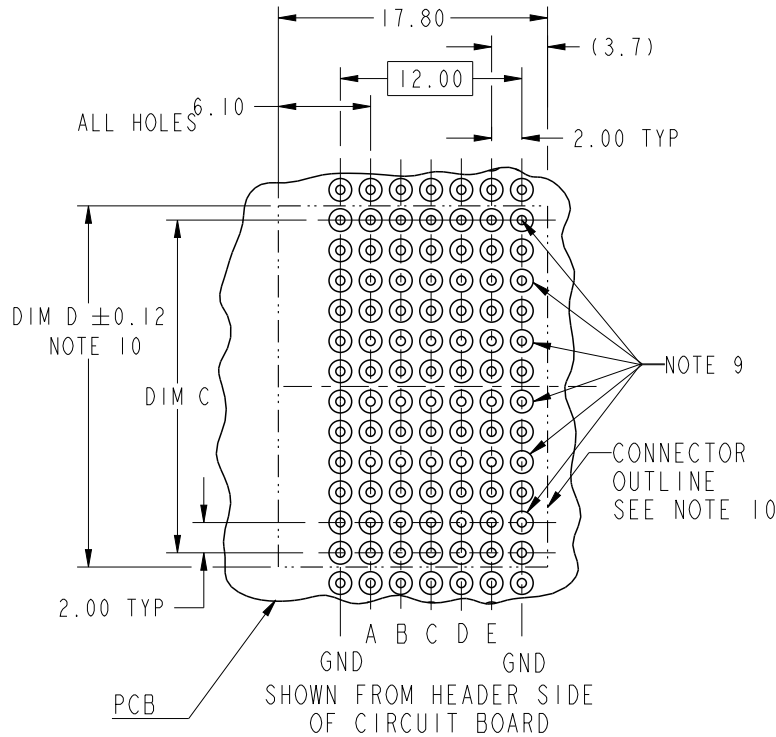
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spec ref -		dr P-Mathew Nebu	2011/05/20	projection 	mm 	size A4	scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng B T Varghese	2017/09/09			ecn no ELX-I-27923-1	
		chr -	-			rel level Released	
surface ISO 1302	linear	0.X	±0.1	product family METRAL 1000	dwg no 84817	rev AH	
		0.XX	±0.05				
		0.XXX	±0.020	Product - Customer Drw		sheet 2 of 7	
	angular	0°	±2°				

RECOMMENDED PCB LAYOUT



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

NOTES:

- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT 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 APPLICATIONS."
- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
- HOUSING MATERIAL: LCP, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHOR BRONZE
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
- PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS AS SHOWN IN TABLE ON SHEET I. PLATING ON "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS SnPb.
- 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 OPPOSE 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 GS-20-010.
- CURRENT RATING : 1 AMP PER PIN
- TEMPERATURE RANGE : -55°C TO +105°C
- P/N 84817-X01ZZZ SHOWN ON SHEET I.
- THE PRODUCTS WHERE THE PART NUMBERS END IN "LF" MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004. 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:84817-XYYYLF.
- SEE PRODUCT SPEC GS-12-110 FOR PERFORMANCE, TEST, AND SIGNAL INTEGRITY INFORMATION.
- PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

spec ref	-	dr	P-Mathew Nebu	2011/05/20	projection	mm	size	A4	scale	2:1
tolerance std	ISO 406 ISO 1101	eng	B T Varghese	2017/09/09			ecn no	ELX-I-27923-1		
TOLERANCES UNLESS OTHERWISE SPECIFIED		chr	-	-				rel level	Released	
surface	linear	appr	K-Paul Biju	2017/09/13	product family	METRAL 1000		rev	84817	
	angular				cat. no.	Product - Customer Drw		sheet	3 of 7	
	0.X									
	0.XX									
	0.XXX									
	0°									
	±0.1									
	±0.05									
	±0.020									
	±2°									

PIN 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 RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,DE	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	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

spec ref -		dr P-Mathew Nebu	2011/05/20	projection 	mm 	size A4	scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng B T Varghese	2017/09/09			ecn no ELX-I-27923-1	
		chr -	-				
surface ISO 1302	linear	0.X	±0.1	product family METRAL 1000	rel level Released		
		0.XX	±0.05				
		0.XXX	±0.020				
	angular	0°	±2°	product family METRAL 1000			
		Amphenol FCI		VERTICAL SIGNAL HDR 5 ROW		dwg no 84817	rev AH
				PRESS-FIT, SPECIAL LOAD, STD.			
		cat. no.		Product - Customer Drw		sheet 4 of 7	

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PIN 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,DE	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.

spec ref -		dr P-Mathew Nebu	2011/05/20	projection 	mm 	size A4	scale 2:1
tolerance std ISO 406 ISO 1101	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng B T Varghese	2017/09/09			ecn no ELX-I-27923-1	
		chr -	-				
surface ISO 1302	linear	0.X	±0.1	product family METRAL 1000	rel level Released		
		0.XX	±0.05				
		0.XXX	±0.020				
	angular	0°	±2°	Amphenol FCI	VERTICAL SIGNAL HDR 5 ROW PRESS-FIT, SPECIAL LOAD, STD.	84817	rev AH
		cat. no.		Product - Customer Drw		sheet 5 of 7	

A

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SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84817-XY001LF	E	01
	D	
	C	
	B	
	A	
84817-XY002LF *RPU	GND	22
	E	
	D	
	C	
	B	
84817-XY011LF	A	02
	GND	
	E	
	D	
	C	
84817-XY021LF	B	02
	A	
	GND	
	E	
	D	

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.95 TO 3.80mm

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84817-XY022LF	E	02
	D	
	C	
	B	
	A	
84817-XY023LF	GND	02
	E	
	D	
	C	
	B	
84817-XY024LF *RPU	A	06
	GND	
	E	
	D	
	C	
84817-XY025LF *RPU	B	06
	A	
	GND	
	E	
	D	

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
4.00 TO 5.30mm

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
*2.30-3.30 TO 5.30mm

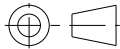

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84817-XY026LF *RPU	E	22
	D	
	C	
	B	
	A	
84817-XY027LF *RPU	GND	01
	E	
	D	
	C	
	B	
84817-XY028LF	A	01
	GND	
	E	
	D	
	C	
84817-XY029LF	B	02
	A	
	GND	
	E	
	D	
84817-XY030LF *RPU	C	07
	B	
	A	
	GND	
	E	
84817-XY031LF *RPU	D	25
	C	
	B	
	A	
	GND	

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.95 TO 3.80mm

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.95 TO 3.80mm

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.95 TO 3.80mm

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.95 TO 3.80mm

spec ref		-		dr	P-Mathew Nebu	2011/05/20	projection 	mm 	size	A4	scale	2:1
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	B T Varghese	2017/09/09			ecn no	ELX-I-27923-1		
ISO 406 ISO 1101				chr	-	-			rel level	Released		
surface ISO 1302	linear	0.X	±0.1	appr	K-Paul Biju	2017/09/13	product family	METRAL 1000		rev	AH	
		0.XX	±0.05					dwg no	84817			
		0.XXX	±0.020									cat. no.
angular	0°	±2°	VERTICAL SIGNAL HDR 5 ROW PRESS-FIT, SPECIAL LOAD, STD.									

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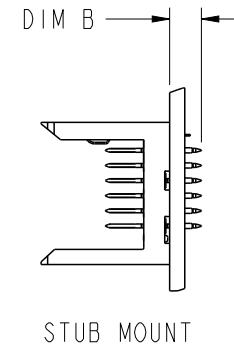
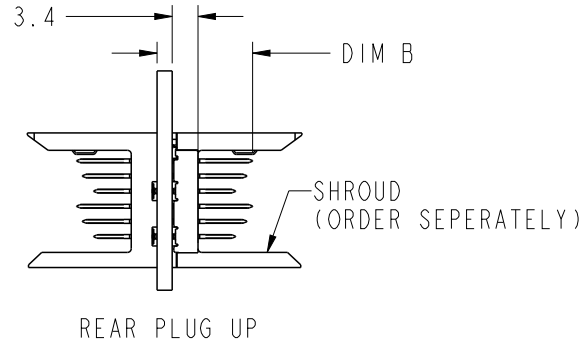
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SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84817-XY032LF	E	22
	D	
	C	45
	B	
	A	
GND	22	
84817-XY033LF *RPU	E	06
	D	
	C	
	B	
	A	
GND	30	
84817-XY034LF	E	03
	D	
	C	
	B	
	A	
GND	02	
84817-XY035LF	E	01
	D	
	C	
	B	
	A	
GND	01	
84817-XY036LF *RPU	E	22
	D	
	C	01
	B	
	A	
GND	22	
84817-XY037LF	E	01
	D	
	C	
	B	
	A	
GND	02	

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84817-XY038LF *RPU	E	49
	D	
	C	
	B	
	A	
GND		
84817-XY039LF *RPU	E	36
	D	
	C	
	B	
	A	
GND	06	

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
4.80 TO 6.80mm

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
2.95 TO 3.80mm



A

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D

spec ref		-		dr	P-Mathew Nebu	2011/05/20	projection	mm		size	A4	scale	2:1						
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	B T Varghese	2017/09/09				ecn no			ELX-I-27923-1						
ISO 406 ISO 1101				chr	-	-				rel level			Released						
surface		linear		appr	K-Paul Biju	2017/09/13	product family			METRAL 1000									
ISO 1302		0.X		Amphenol FCi		VERTICAL SIGNAL HDR 5 ROW PRESS-FIT, SPECIAL LOAD, STD.			dwg no			84817		rev		AH			
		0.XX																±0.1	
		0.XXX																±0.05	
		angular		0°		±2°		cat. no.			Product - Customer Drw			sheet 7 of 7					