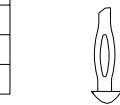


PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	PRESS FIT TAIL PLATING
98122-1ZZZ	TELCORDIA CO	STANDARD
98122-1ZZZLF		LEAD FREE
98122-5ZZZ	TELCORDIA UE	STANDARD
98122-5ZZZLF		LEAD FREE

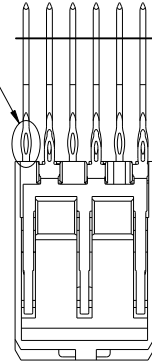


EYE OF NEEDLE
PRESS FIT SECTION

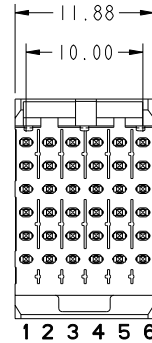
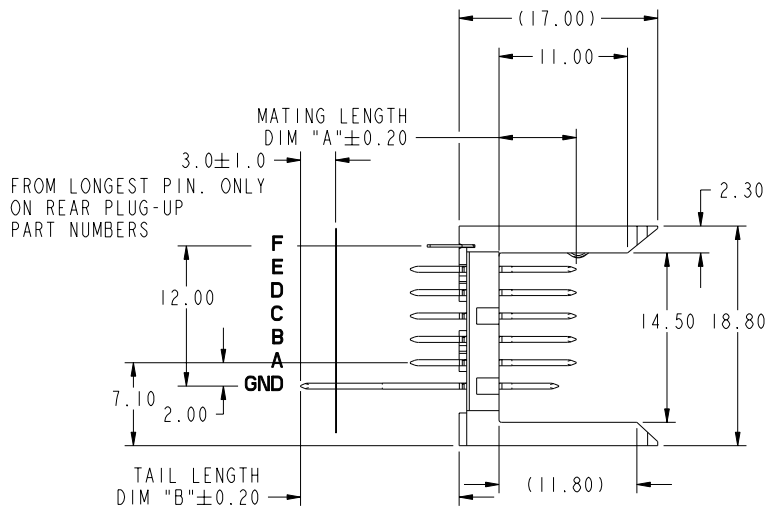


BABY-H
PRESS FIT SECTION

SEE DETAIL A



DETAIL A
SCALE 4:1
SEE NOTE 17



mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER	www.fciconnect.com
ltr	ecn no.	dr	date	linear	0.X ± 0.3	COPY	
J	V06-0573	DCH	2006-06-14	linear	0.XX ± 0.13	projection	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD EXT.
K	V07-0177	DCH	2007-04-17	linear	.XXX ± .051	MM	
L	V08-0029	HTB	2008-01-21	angles	0° ± 2°	scale	product family METRAL 1000 code
M	V08-0131	LP	2008-03-24	dr	E. KROPER. 2001-01-25	1:1	size
-	-	-	-	engr	J. VOLSTORF 2001-01-25	A	dwg no
G	V04-0399	DAI	2004-05-24	chr	J. VOLSTORF 2001-01-25		98122
H	V05-0806	VS	2005-09-21	oppd	J. VOLSTORF 2001-01-25		213
sheet index	revision sheet	M	M	M	M	M	sheet 1 of 6



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REV E - 2006-04-18

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PDM: Rev:M

STATUS: Released

Printed: Dec 17, 2009

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PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 84854 SERIES RECEPTACLE		WHEN MATING TO A 52062 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	
ltr	ecn no.	dr	date	linear	0.X ± 0.3	projection	COPY	title			
M					0.XX ± 0.13			VERTICAL SIGNAL HDR 5 ROW			
				angles	.XXX ± .051			P.F. 30 POS. SELECT LOAD EXT.			
					0° ± 2°			product family		METRAL 1000	code
				dr	E. KROPER. 2001-01-25	MM		size		dwg no	213
				engr	J. VOLSTORF 2001-01-25	scale		A		98122	sheet
				chr	J. VOLSTORF 2001-01-25	1:1				2	
				appd	J. VOLSTORF 2001-01-25						
sheet index	revision sheet							cage code		22526	4



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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 84854 SERIES RECEPTACLE		WHEN MATING TO A 52062 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		FCI	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	COPY		www.fciconnect.com	
M				angles	0.XX ± 0.13	projection		title VERTICAL SIGNAL HDR 5 ROW	
					.XXX ± .051	MM		P.F. 30 POS. SELECT LOAD EXT.	
				dr	0° ± 2°	scale		product family METRAL 1000	
				engr	E. KROPER. 2001-01-25	A		code 213	
				ctr	J. VOLSTORF 2001-01-25	1:1		sheet 3	
				appd	J. VOLSTORF 2001-01-25			size 98122	
sheet index	revision sheet							cage code 22526	

REV E - 2004-04-18

Pro/E

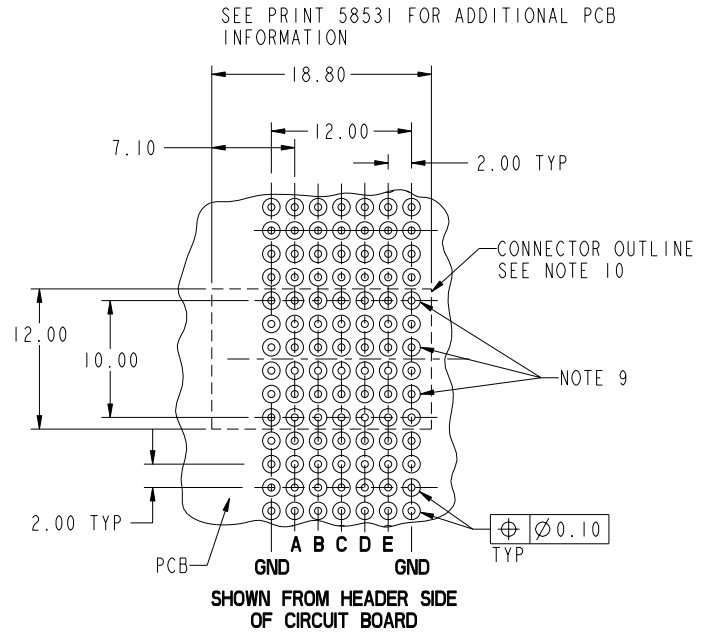
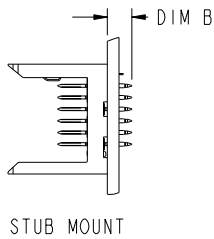
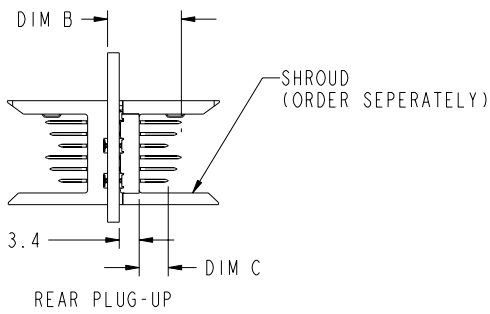
PDM: Rev:M

STATUS: Released

Printed: Dec 17, 2009

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	Ø 0.65-0.80
DRILLED HOLE	Ø 0.81-0.86 (Ø 0.85 DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015



mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCJ	
ltr	ecn no.	dr	date	linear	0.X ± 0.3	projection	www.fcjconnect.com		
M				angles	0.XX ± 0.13	MM	title		
					.XXX ± 0.01	scale	VERTICAL SIGNAL HDR 5 ROW		
				dr	0° ± 2°	1:1	P.F. 30 POS. SELECT LOAD EXT.		
				engr	E. KROPER. 2001-01-25		product family		code
				chr	J. VOLSTORF 2001-01-25		METRAL 1000		213
				appd	J. VOLSTORF 2001-01-25		size		sheet
sheet index	revision sheet						98122		4



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REV E - 2004-04-18


PDM: Rev:M STATUS: Released Printed: Dec 17, 2009

cage code 22526

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 FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
- 3. SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
- 4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994
- 5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHER BRONZE
GROUND SPRING MATERIAL: PHOSPHER BRONZE
- 6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS AS SHOWN IN TABLE ON SHEET 1. PLATING ON "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 COMPLIANT 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 98122-~~XZZZLF~~


LEAD FREE (OPTIONAL)
SELECT LOAD PATTERN
PLATING CODE
- 14. P/N 98122-X01ZZZ SHOWN.
- 15. 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.
- 16. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 98122-XXXXLF
- 17. 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	
ltr	ecm no.	dr	date	linear	0. x ± 0. 3	COPY		title	
M					0. xx ± 0. 13	projection		VERTICAL SIGNAL HDR 5 ROW	
				angles	.xxx ± .051			P.F. 30 POS. SELECT LOAD EXT.	
				dr	0° ± 2°			product family METRAL 1000	
				eng	E. KROPER. 2001-01-25	scale		code	
				ctr	J. VOLSTORF 2001-01-25	1:1		213	
				appd	J. VOLSTORF 2001-01-25	A		sheet	
sheet index	revision sheet							5	

cage code 22526

1 | 2

3 |

4

SELECT LOAD PATTERN

PRODUCT #	ROW	COLUMN					
		1	2	3	4	5	6
98122-X001 SEE NOTE 16 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

A

A



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B

B

mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY		
M					0.XX ±0.13		title VERTICAL SIGNAL HDR 5 ROW		
				angles	.XXX ±.051		P.F. 30 POS. SELECT LOAD EXT.		
				dr	0° ±2°	scale	product family	METRAL 1000	code
				eng	E. KROPER. 2001-01-25	1:1	size	dwg no	213
				chr	J. VOLSTORF 2001-01-25		A	98122	sheet
				oppd	J. VOLSTORF 2001-01-25				6
sheet index	revision sheet								

1 | 2

3 |

4

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PDM: Rev:M STATUS:Released Printed: Dec 17, 2009

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