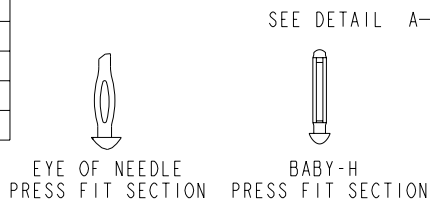




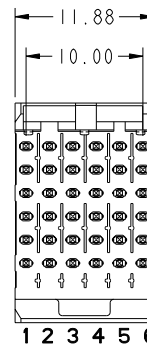
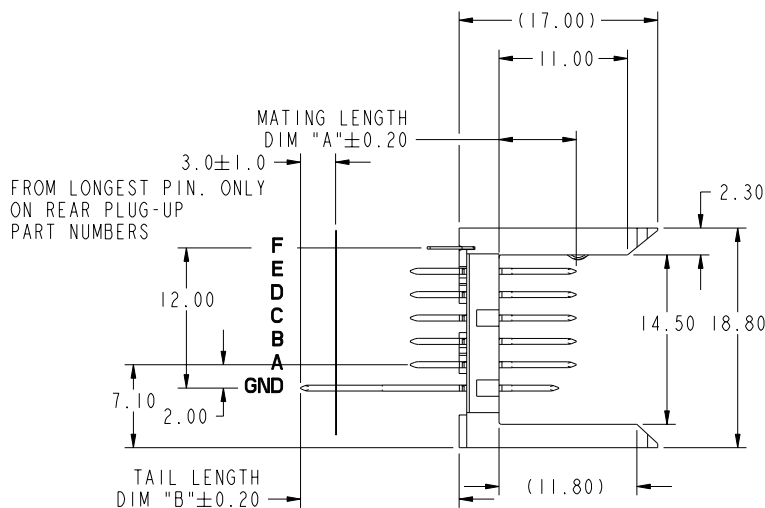
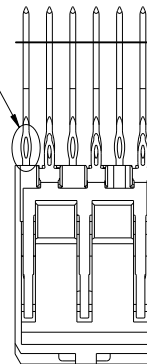
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REV E - 2006-04-18

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



DETAIL A
SCALE 4:1
SEE NOTE 17



mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI	
litr	ecn no.	dr	date	linear	0. X ± 0.3	COPY		www.fciconnect.com	
J	V06-0573	DCH	2006-06-14	linear	0. XX ± 0.13	projection		title	
K	V07-0177	DCH	2007-04-17	linear	.XXX $\pm .051$			VERTICAL SIGNAL HDR 5 ROW	
L	V08-0029	HTB	2008-01-21	angles	0° $\pm 2°$			P.F. 30 POS. SELECT LOAD EXT.	
M	V08-0131	LP	2008-03-24	dr	E. KROPER. 2001-01-25			product family METRAL 1000	
-	-	-	-	engr	J. VOLSTORF 2001-01-25			code 213	
G	V04-0399	DAI	2004-05-24	chr	J. VOLSTORF 2001-01-25	scale 1:1		size dwg no 98122	
H	V05-0806	VS	2005-09-21	appd	J. VOLSTORF 2001-01-25			sheet 1 of 6	
sheet index	revision sheet	M	M	M	M	M	M	cage code 22526	
		1	2	3	4	5	6	4	

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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*		4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44	5.75	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*		4.30	1.60 MIN	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	6.50	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		FCI www.fciconnect.com	
litr	ecn no.	dr	date	linear	0. x ± 0.3	COPY		title	
M					0. xx ± 0.13	projection		VERTICAL SIGNAL HDR 5 ROW	
					.xxx ± .051			P.F. 30 POS. SELECT LOAD EXT.	
				angles	0° ± 2°				
				dr	E. KROPER. 2001-01-25			product family METRAL 1000	
				enrg	J. VOLSTORF 2001-01-25			code 213	
				chr	J. VOLSTORF 2001-01-25			sheet 2	
				appd	J. VOLSTORF 2001-01-25				
sheet index	revision sheet								
						scale 1:1		size A	
								cage code 22526	

Pro/E

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 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*		4.30	1.60 MIN	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	8.00	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 www.fciconnect.com	
litr	ecn no.	dr	date	linear	0.X ± 0.3	COPY		title	
M					0.XX ± 0.13	projection		VERTICAL SIGNAL HDR 5 ROW	
				angles	.XXX ± .051	MM		P.F. 30 POS. SELECT LOAD EXT.	
					0° ± 2°	scale		product family METRAL 1000	
				dr	E. KROPER. 2001-01-25	1:1		size	
				engr	J. VOLSTORF 2001-01-25			dwg no	
				chr	J. VOLSTORF 2001-01-25			98122	
				appd	J. VOLSTORF 2001-01-25			code	
sheet	revision							213	
index	sheet							sheet	
								3	
								cage code 22526	
								4	

REV E - 2006-04-18

PDM: Rev:M

STATUS:Released

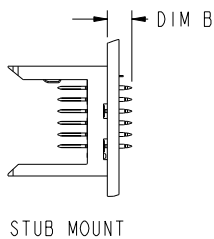
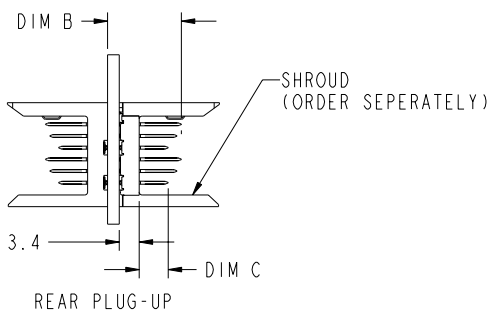
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REV 1 - 2006-04-18

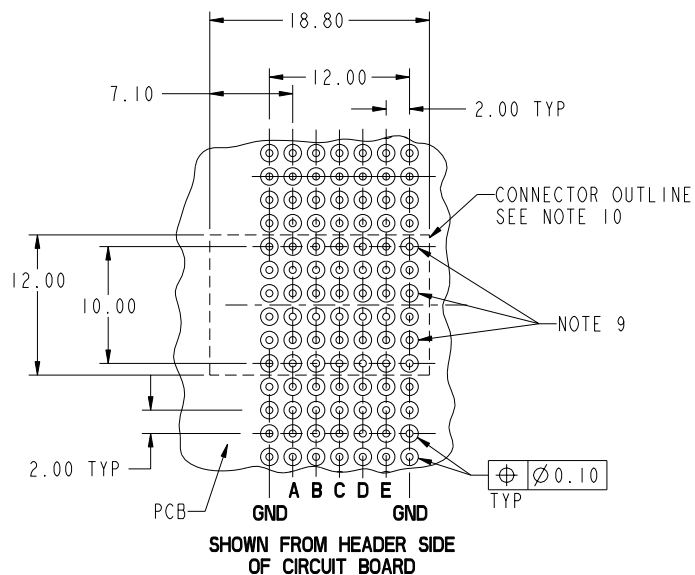
PRODUCT NUMBER
SEE SHEET 1



mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI	
ltr	ecn no.	dr	date	linear	0. X ±0.3	COPY	projection	www.fciconnect.com	
M					0. XX ±0.13			title	
				angles	.XXX ±.051			VERTICAL SIGNAL HDR 5 ROW	
					0° ±2°			P.F. 30 POS. SELECT LOAD EXT.	
				dr	E. KROPER. 2001-01-25			product family	
				engr	J. VOLSTORF 2001-01-25			METRAL 1000	
				chr	J. VOLSTORF 2001-01-25			code	
				appd	J. VOLSTORF 2001-01-25			213	
sheet	revision							size	
index	sheet							dwg no	
								A	
								98122	
								sheet	
								4	
								cage code	
								22526	
								4	

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

SEE PRINT 58531 FOR ADDITIONAL PCB
INFORMATION



SHOWN FROM HEADER SIDE
OF CIRCUIT BOARD

Pro/E

PDM: Rev:M

STATUS: Released

Printed: Dec 17, 2009

SFF SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CURCUIT 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 I. 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
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT
FOR MATING WITH METRAL 4000 RECEPTACLES
DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT

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







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

mat'l codes				SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
itr	ecn no.	dr	date	linear	0 . X \pm 0.3		COPY			title	
M					0 . XX \pm 0.13		projection			VERTICAL SIGNAL HDR 5 ROW	
					.XXX \pm .051					P.F. 30 POS. SELECT LOAD EXT.	
					0° \pm 2°						
				angles							
				dr	E. KROPER	2001-01-25	MM		product family		code
				engr	J. VOLSTORF	2001-01-25	←		METRAL 1000		213
				chr	J. VOLSTORF	2001-01-25	→		size		sheet
				appd	J. VOLSTORF	2001-01-25	scale		dwg no		5
							1 : 1		A		98122
sheet index	revision sheet										
Pro/E							31		cage code	22526	4

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mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0. X \pm 0.3	COPY			title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD EXT.
M					0. XX \pm 0.13	projection			
					.XXX \pm .051				
				angles	0° \pm 2°				
				dr	E. KROPER 2001-01-25	MM		product family	METRAL 1000
				engr	J. VOLSTORF 2001-01-25			size	dwg no
				chr	J. VOLSTORF 2001-01-25	scale			
				appd	J. VOLSTORF 2001-01-25	1:1			
sheet index		revision sheet							
Pro/E						3		cage code	22526
									4