

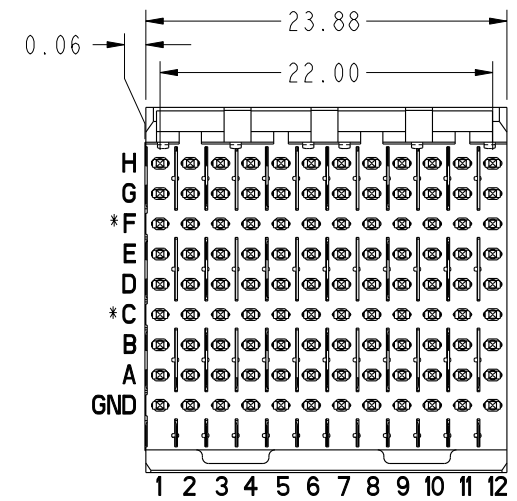
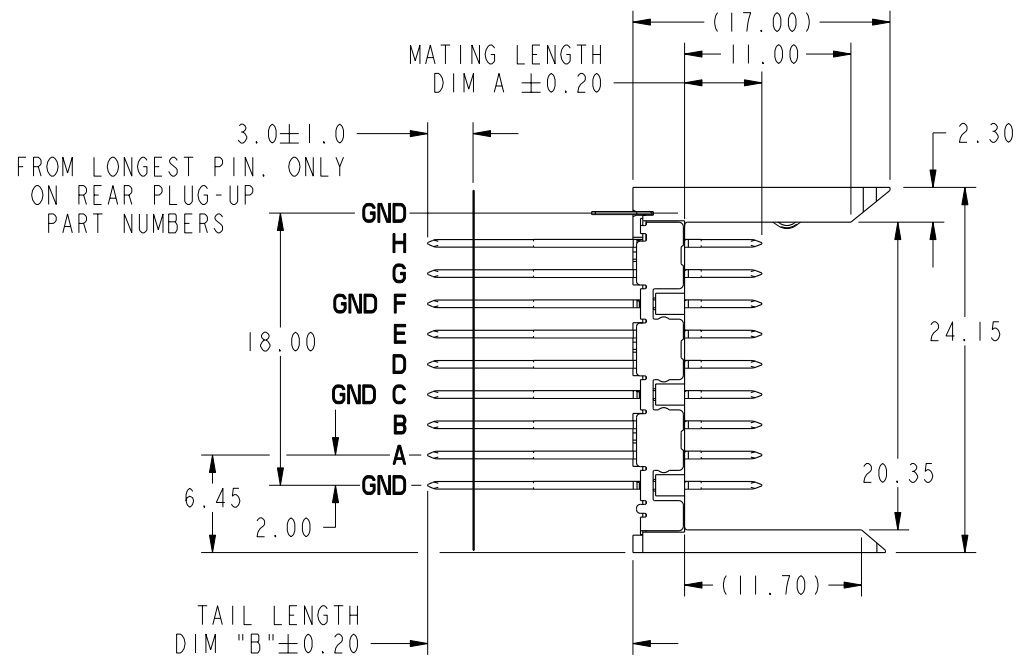
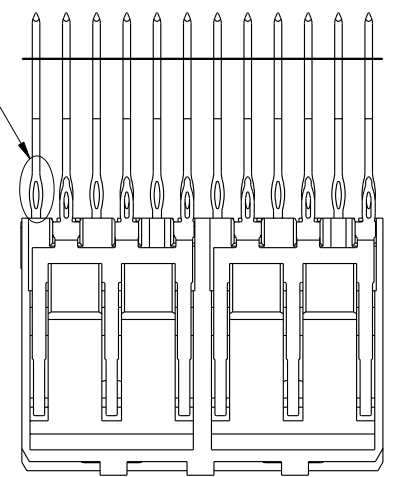


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PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	PRESS FIT TAIL PLATING	FOR REAR PLUG UP APPLICATIONS USE SHROUD
10031551-102ZZZ	TELCORDIA CO	STANDARD	84625-102
10031551-102ZZZLF	TELCODIA UE	LEAD FREE	84625-102LF
10031551-502ZZZ	TELCORDIA CO	STANDARD	84625-502
10031551-502ZZZLF	TELCODIA UE	LEAD FREE	84625-502LF

EYE OF NEEDLE PRESS FIT SECTION
BABY-H PRESS FIT SECTION

DETAIL A
SCALE 4:1
SEE NOTE 17



*ROW C AND F INFORMATION
ODD NUMBER COLUMNS WITHIN ROW C & F ARE COMMONED TO GROUND INTERNALLY WITHIN THE HOUSING. THE EVEN NUMBER COLUMNS WITHIN ROW C & F ARE NOT. FOR MAXIMUM PERFORMANCE IT IS RECOMMENDED THESE EVEN COLUMNS BE GROUND COMMONED WITHIN PCB. SEE NOTE 14

rev	ecn no	dr	date
A	V03-0809	GIP	2003-07-23
B	V06-0573	DCH	2006-06-14
C	V06-0045	DPU	2006-06-30
D	V07-0545	DCH	2007-08-15
E	V08-0038	HTB	2008-01-28
F	V08-0067	LP	2008-03-19
-	-	-	-

www.fciconnect.com			surface 3.2 ASME Y14.5	tolerance std -	projection mm
			TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr	G. PETERS	2003-07-23	ANGULAR 0° ±2°	0.X ±.01	size A4
Eng	J. VOLSTORF	2003-07-23		0.XX ±.005	Scale 1:1
Chr	J. VOLSTORF	2003-07-24		0.XXX ±.0020	ECN V08-0067
Appr	J. VOLSTORF	2003-07-23	Product family METRAL 2000		Spec ref -
FCI			title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SPECIAL LOAD EXT.		dwg no 10031551
			catalog no -	CUSTOMER	Rev. F
			sheet 1 of 5		



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

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



title	VERTICAL SIGNAL HDR 8 ROW		dwg no	10031551		Rev.	F	
	P.F. 96 POS. SPECIAL LOAD EXT.							
catalog no			-		CUSTOMER		sheet 2 of 5	

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)

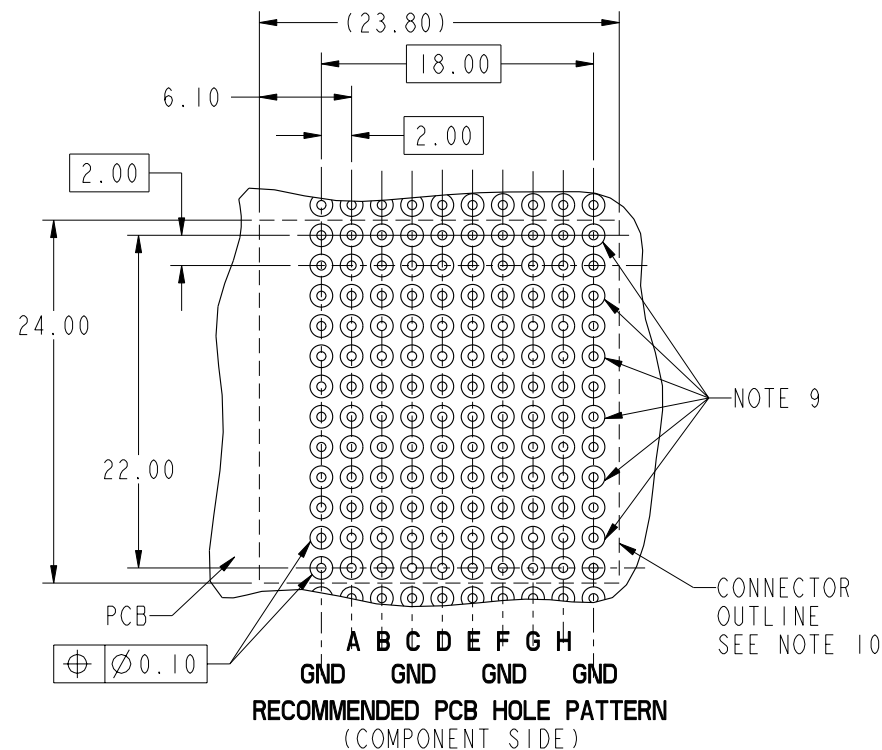
COPPER PLATING

0.025 MIN

SnPb PLATING

0.005-0.015

SEE PRINT 58351 FOR ADDITIONAL
INFORMATION.



title VERTICAL SIGNAL HDR 8 ROW

P.F. 96 POS. SPECIAL LOAD EXT.

catalog no

dwg no

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Rev.

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CUSTOMER

sheet 3 of 5

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 950511-028 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: PHOSPHOR BRONZE
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
STRIPLINE SHIELD MATERIAL: PHOSPHOR 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.
DIM A : 5.0mm MIN, 8.0mm MAX FOR ROWS A-H
DIM A : 5.0mm MIN, 6.3mm MAX FOR ROW GND NEXT TO ROW A
DIM C : 5.0mm MIN, 8.0mm MAX FOR ROWS A-H
DIM C : 4.6mm MIN, 6.3mm 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 10031551-X02ZZZLF



14. FOR FRONT PLUG-UP APPLICATIONS, THE EVEN NUMBERED PINS IN ROW 'C' AND 'F' CAN BE USED FOR POWER AS WELL AS FOR GROUND. IF THE SURROUNDING PINS ARE NOT USED FOR POWER, THEN EACH PIN CAN CARRY 3 AMPS. IF THE SURROUNDING PINS ARE USED FOR POWER, THEN EACH PIN CAN CARRY 1 AMP. WHEN THE SURROUNDING PINS ARE USED ONLY FOR LOW SPEED SIGNALS, THEN THE EVEN NUMBERED 'C' AND 'F' ROW PINS CAN ALSO BE USED FOR LOW SPEED SIGNALS. THIS IS NOT TRUE FOR REAR PLUG-UP APPLICATIONS USING METRAL 2000 SHROUD AS IN THIS CASE ALL 'C' AND 'F' ROW PINS ARE COMMON TO GROUND.

15. PRODUCTS WHERE THE PART NUMBER 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: 10031551-X02ZZZLF.

17. PIN TYPE IS AT THE MANUFACTURE'S OPTION AND CAN EITHER BE BABY-H OR EYE OF THE NEEDLE STYLE.



TITLE VERTICAL SIGNAL HDR 8 ROW

P.F. 96 POS. SPECIAL LOAD EXT.

CATALOG NO

DWG NO

10031551

REV.

F

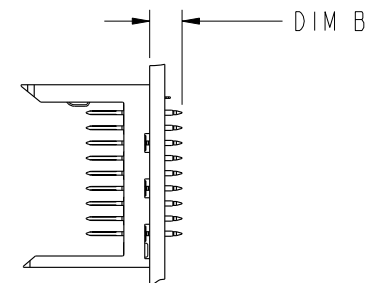
CUSTOMER

SHEET 4 OF 5

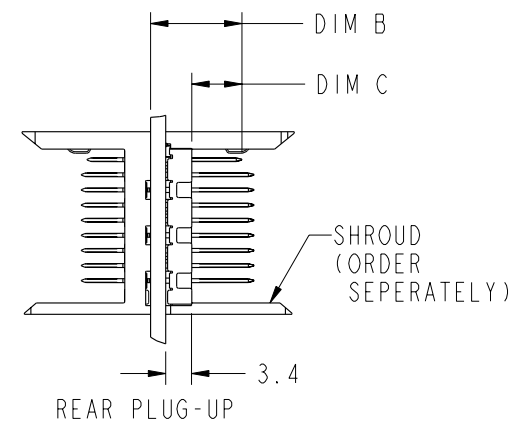
SPECIAL LOAD PATTERN

PRODUCT #	ROW	PIN CODES
10031551-X02001 SEE NOTE 16 LEAD FREE OPTION.	H	44
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	

PCB THICKNESS
RANGE FOR REAR
PLUG-UP IS:
2.95 mm - 3.80 mm



STUB MOUNT



REAR PLUG-UP

	title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SPECIAL LOAD EXT.	dwg no 10031551	Rev. F
	catalog no -	CUSTOMER -	sheet 5 of 5 -