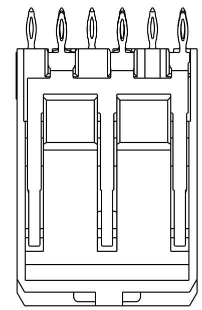
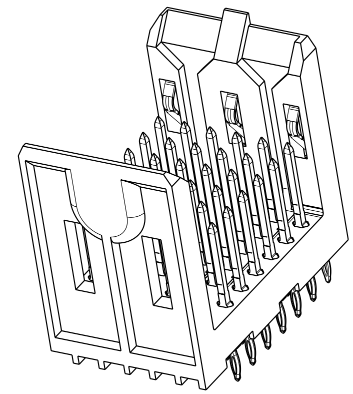
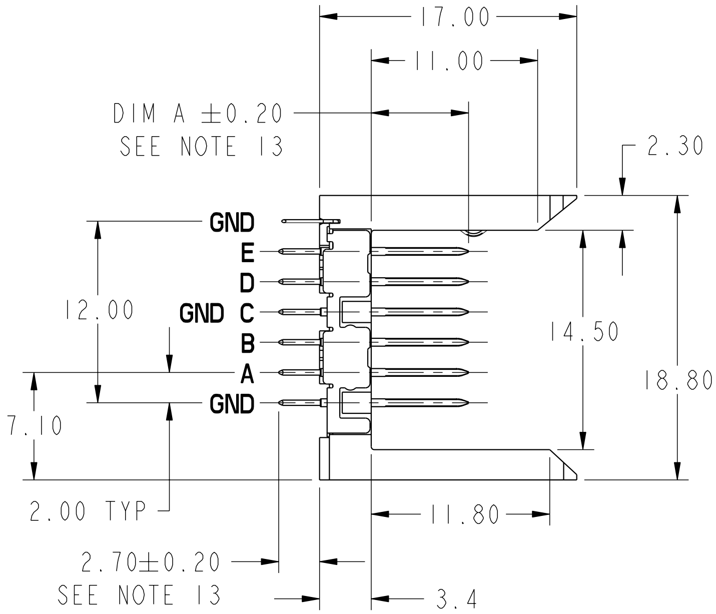
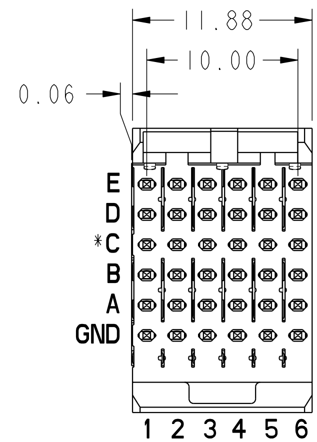
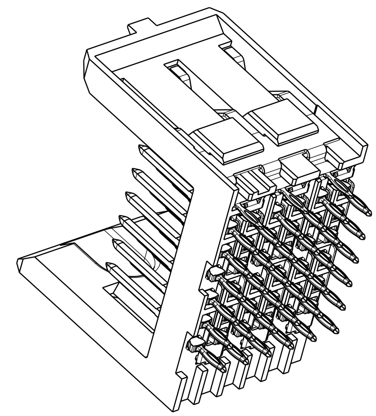
PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	APPLICATION
59569-101ZZZ	TELCORDIA CO	STANDARD
59569-101ZZZLF	TELCORDIA CO	LEAD FREE
59569-501ZZZ	TELCORDIA UE	STANDARD
59569-501ZZZLF	TELCORDIA UE	LEAD FREE











*ROW C INFORMATION

ODD NUMBER COLUMNS WITHIN ROW C ARE COMMONED TO GROUND INTERNALLY WITHIN THE HOUSING. THE EVEN NUMBER COLUMNS WITHIN ROW C ARE NOT. FOR MAXIMUM PERFORMANCE IT IS RECOMMENDED THESE EVEN COLUMNS BE GROUND COMMONED WITHIN PCB.
SEE NOTE 12

mat'l code: SEE TABLE

ltr	ecn no.	dr	date
H	V06-0868	DCH	2006-08-29
J	V07-0171	DCH	2007-03-29
K	V07-0699	HTB	2007-12-03
-	-	-	-
E	V03-0450	TAB	2003-05-01
F	V05-0191	DAI	2005-05-15
G	V06-0498	DCH	2006-05-24

tolerances unless otherwise specified

linear	0.X ±0.3	
	0.XX ±0.13	
	.XXX ±.051	
angles	0° ±2°	
dr	C. DAILY	2002-01-16
engr	J. VOLSTORF	2001-10-25
chr	J. VOLSTORF	2002-01-16
appd	J. VOLSTORF	2002-01-16

sheet index	revision	K	K	K	K
	sheet	1	2	3	4

CUSTOMER COPY
projection
MM
scale 2:1

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title VERTICAL SIGNAL HDR. 5 ROW P.F. 30 POS. SPECIAL LOAD EXT.

product family METRAL 4000 | code 213
size A | dwg no 59569 | sheet 1 of 4

cage code 22526

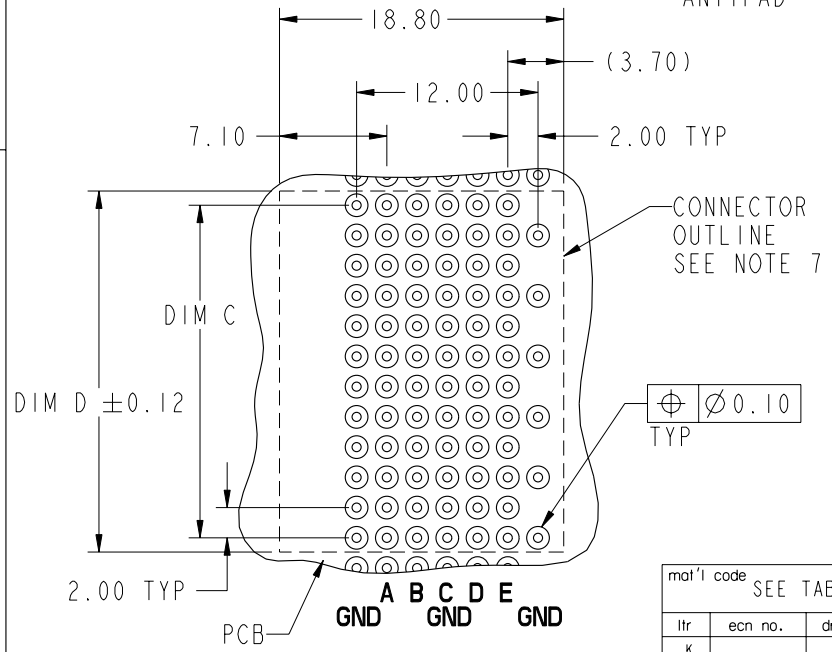
Pro/E

REV E - 2006-04-18

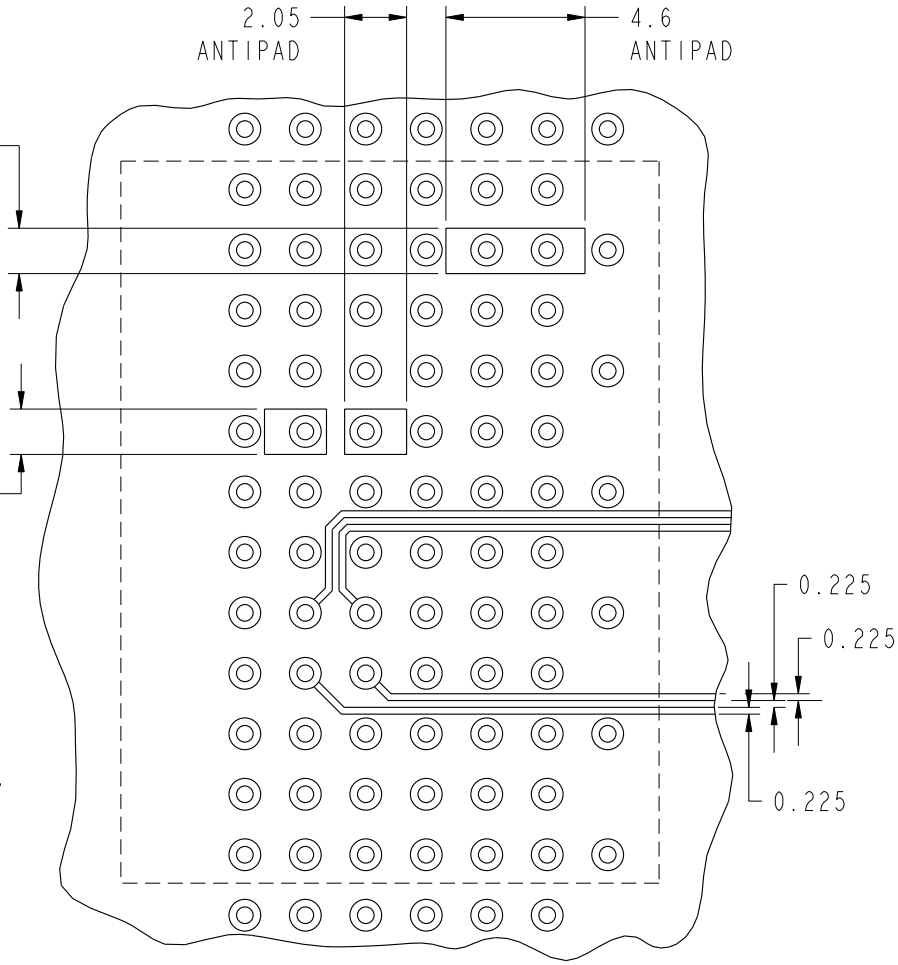
PDM: Rev:K STATUS: Released Printed: May 13, 2011

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1	OPTION 2
COPPER PLATING	0.025 MIN-0.050 MAX.	0.025 MIN-0.050 MAX.
SnPb PLATING	0.005-0.015	---



RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE)
SEE NOTE 11



RECOMMENDED TRACE AND ANTIPAD DIMENSIONS
SCALE 4:1

mat'l code	SEE TABLE			tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY	
K					0.XX ±0.13		projection	title VERTICAL SIGNAL HDR. 5 ROW P.F. 30 POS. SPECIAL LOAD EXT.
					.XXX ±.051			
				angles	0° ±2°			
				dr	C. DAILY	2002-01-16	MM	product family METRAL 4000 code 213
				engr	J. VOLSTORF	2001-10-25		
				chr	J. VOLSTORF	2002-01-16	scale 2:1	size A dwg no 59569 sheet 2
				appd	J. VOLSTORF	2002-01-16		
sheet index	revision sheet							cage code 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:K STATUS: Released Printed: May 13, 2011

PRODUCT NUMBER
SEE SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-014 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS. SEE PRODUCT SPECIFICATION GS-12-184.

2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994.

3. 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

4. PLATING ON CONTACT AREA OF PIN PER PERFORMANCE LEVEL, SEE SHEET 1. PLATING ON "LF" TAILS IS Sn ONLY, ALL OTHERS ARE TIN-LEAD.

5. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
FOR USE 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 ROWS C-F
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROWS GND
FOR USE WITH METRAL 1000 RECEPTACLES/
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A,B,C,D,E
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND

6. THE MIN PCB THICKNESS FOR FRONT PLUG-UP APPLICATIONS IS 1.6mm.

7. 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.

8. CURRENT RATING : 1 AMP PER PIN

9. TEMPERATURE RANGE : -55°C TO +105°C

10. P/N 59569-X01ZZZLF

11. AVOID TRACES ON TOP OF BOARD DUE TO EXPOSED GROUND SHIELD.

12. FOR FRONT PLUG-UP APPLICATIONS, THE EVEN NUMBERED PINS IN ROW "C" CAN BE USED FOR POWER AS WELL AS 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" ROW PINS CAN ALSO BE USED FOR LOW SPEED SIGNALS.

13. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.

14. PRODUCTS WHERE THE PART NUMBERS ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260C° FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

15. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX, EXAMPLE: 59569-X0100ILF.

16. EQUIVALENT PRECIOUS METAL PLATING MAY BE SUBSTITUTED.

mat'l code	SEE TABLE			tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date				COPY	
K				linear	0.X ±0.3		projection	title VERTICAL SIGNAL HDR. 5 ROW P.F. 30 POS. SPECIAL LOAD EXT.
					0.XX ±0.13			
					.XXX ±.051			
				angles	0° ±2°			
				dr	C. DAILY	2002-01-16	MM	product family METRAL 4000 code 213
				engr	J. VOLSTORF	2001-10-25		
				chr	J. VOLSTORF	2002-01-16	scale 2:1	size A dwg no 59569 sheet 3
				appd	J. VOLSTORF	2002-01-16		
sheet index	revision sheet							

cage code 22526

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SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
59569-X01001 59569-X01001LF SEE NOTE 15	E	02
	D	
	C	
	B	
	A	
	GND	
59569-X01002 59569-X01002LF SEE NOTE 15	E	03
	D	
	C	
	B	
	A	
	GND	04

DIM A	PIN CODES
5.00	*01
5.75	02
6.50	03
7.25	04
8.00	*19

* CURRENTLY NOT AVAILABLE

mat'l code SEE TABLE				tolerances unless otherwise specified			CUSTOMER COPY
ltr	ecn no.	dr	date	linear	0.X ±0.3		
K					0.XX ±0.13		projection
					.XXX ±.051		
				angles	0° ±2°		MM
				dr	C. DAILY	2002-01-16	
				engr	J. VOLSTORF	2001-10-25	
				chr	J. VOLSTORF	2002-01-16	scale 2:1
				appd	J. VOLSTORF	2002-01-16	
sheet index	revision sheet						

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title VERTICAL SIGNAL HDR. 5 ROW P.F. 30 POS. SPECIAL LOAD EXT.

product family METRAL 4000 | code 213

size A | dwg no 59569 | sheet 4

cage code 22526

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