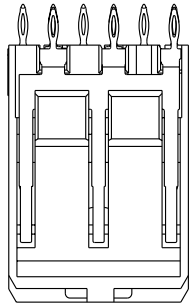
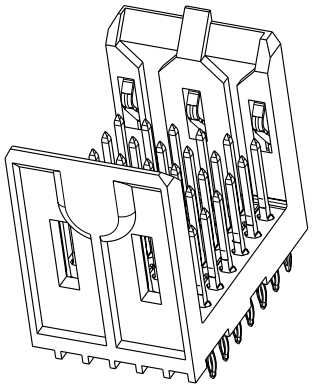
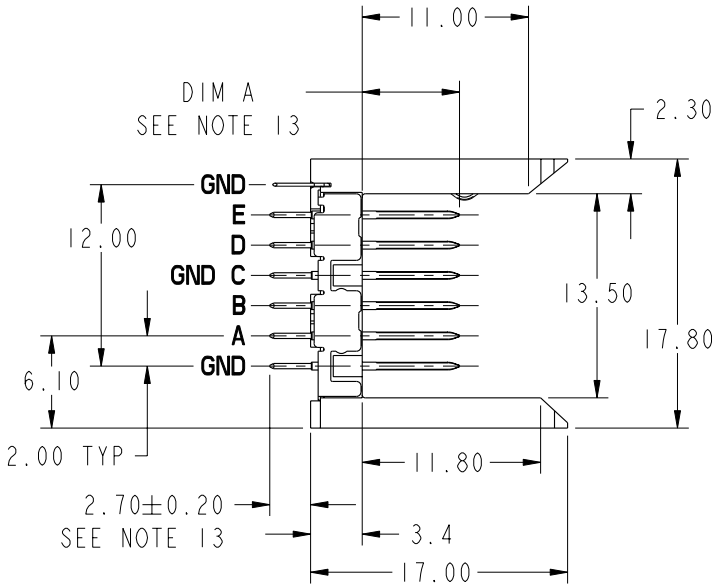
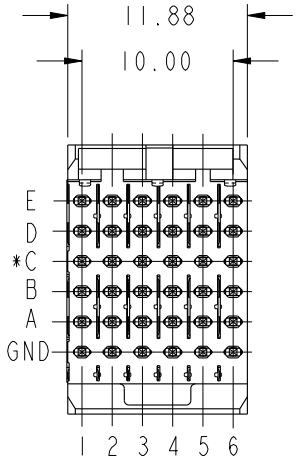
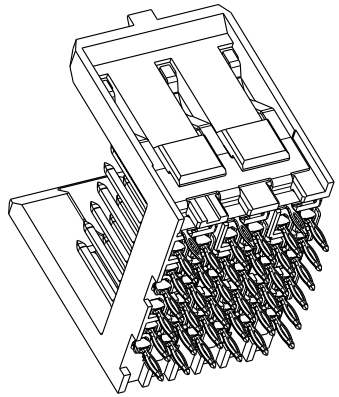
PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	APPLICATION
59566-1YYY	TELCORDIA CO	STANDARD
59566-5YYY	TELCORDIA UE	
59566-1YYYLF	TELCORDIA CO	LEAD FREE
59566-5YYYLF	TELCORDIA UE	











* 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 COMMONED TO GROUND WITHIN THE PCB, SEE NOTE 12

ltr	ecn no.	dr	date
H	V06-0061	DCH	2006-07-07
J	V06-0868	DCH	2006-08-29
K	V07-0174	DCH	2007-04-13
L	V07-0556	DCH	2007-08-22
M	V07-0696	HTB	2007-11-28
-	-	-	-
G	V06-0498	DCH	2006-05-23

sheet index	revision sheet																			
		M	M	M	M															
		1	2	3	4															

mat'l code	SEE TABLE		
tolerances unless otherwise specified			
linear	0.X ±0.3		
	0.XX ±0.13		
	.XXX ±.051		
angles	0° ±2°		
dr	C. DAILY	2002-01-15	
engr	J. VOLSTROF	2001-10-31	
chr	J. VOLSTORF	2002-01-15	
appd	J. VOLSTROF	2002-01-15	

CUSTOMER COPY

projection

MM

scale 1:1

FCI www.fciconnect.com

title: VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.

product family: METRAL 4000 | code: 213

size: A | dwg no: 59566 | sheet: 1 of 4

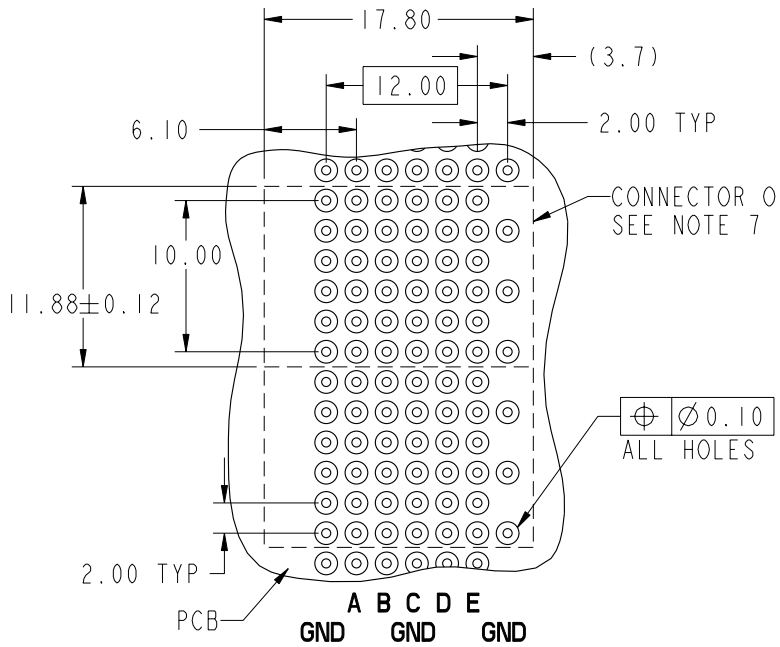
cage code: 22526

REV E - 2006-04-18

Pro/E

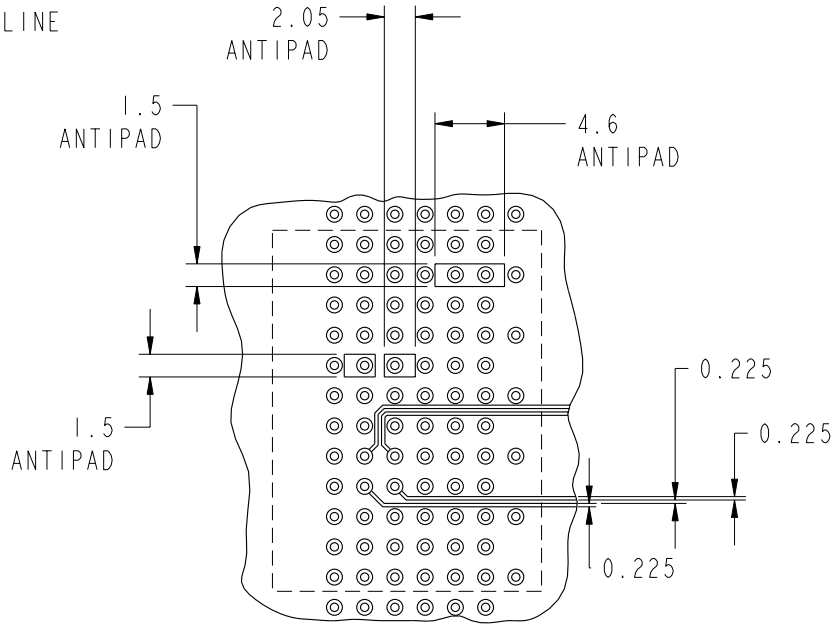
PDM: Rev:M STATUS: Released Printed: May 13, 2011

PRODUCT NUMBER
SEE SHEET 1



RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE)
(SEE NOTE 11)

PRESS-FIT HOLES	OPTION 1	OPTION 2
HOLE DIAMETER AFTER PLATING	0.45-0.55	0.48-0.57
DRILLED HOLE	0.60±0.02	0.60±0.02
COPPER PLATING	0.025 MIN-0.050 MAX.	0.025 MIN-0.050 MAX.
SnPb PLATING	0.005-0.015	---



RECOMMENDED TRACK AND ANTIPAD
DIMENSIONSSCALE 2:1

mat'l code SEE TABLE				tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date				COPY	
M				linear	0.X ±0.3		projection	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.
					0.XX ±0.13			
					.XXX ±.051			
				angles	0° ±2°			
				dr	C. DAILY	2002-01-15	MM	product family METRAL 4000 code 213
				engr	J. VOLSTROF	2001-10-31		
				chr	J. VOLSTORF	2002-01-15	scale 2:1	size A dwg no 59566 sheet 2
				appd	J. VOLSTROF	2002-01-15		
sheet index	revision sheet							

REV E - 2006-04-18

Pro/E

cage code 22526

PDM: Rev:M 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 INFORMATION: PLATING ON CONTACT AREA MEETS PERFORMANCE LEVELS SHOWN IN TABLE ON 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
   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 59566-XYYYLF
    - LEAD FREE (OPTIONAL)
    - SELECT LOAD PATTERN
    - PLATING CODE

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. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN 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.

15. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
    EXAMPLE: 59566-X001LF

16. EQUIVALENT PRECIOUS METAL PLATINGS MAY BE SUBSTITUTED.

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	
M					0.XX ±0.13		projection	title: VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.
					.XXX ±.051			
				angles	0° ±2°			
				dr	C. DAILY	2002-01-15	MM	product family: METRAL 4000 / code: 213
				engr	J. VOLSTROF	2001-10-31		
				chr	J. VOLSTORF	2002-01-15	scale: 1:1	size: A / dwg no: 59566 / sheet: 3
				appd	J. VOLSTROF	2002-01-15		
sheet index	revision sheet							cage code: 22526

REV E - 2006-04-18

Pro/E

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

SELECT LOAD PATTERNS								
METRAL P/N	ROW	PIN CODE						
		1	2	3	4	5	6	
59566-X001 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02	
	D	02	02	02	02	02	02	
	C	04	02	04	02	04	03	
	B	02	02	02	02	02	02	
	A	02	02	02	02	02	02	
	GND	02	02	02	02	02	02	
METRAL P/N	ROW	PIN CODE						
		1	2	3	4	5	6	
59566-X002 SEE NOTE 15 LEAD FREE OPTION	E	03	03	03	03	03	03	
	D	02	03	03	03	03	02	
	C	04	04	04	04	04	04	
	B	03	03	03	03	03	03	
	A	03	03	03	03	03	03	
	GND	02	02	02	02	02	02	
METRAL P/N	ROW	PIN CODE						
		1	2	3	4	5	6	
59566-X003 SEE NOTE 15 LEAD FREE OPTION	E	04	02	02	02	02	02	
	D	04	02	02	02	02	02	
	C	04	02	02	02	02	02	
	B	04	02	02	02	02	02	
	A	04	02	02	02	02	02	
	GND	-	-	-	-	-	-	
METRAL P/N	ROW	PIN CODE						
		1	2	3	4	5	6	
59566-X004 SEE NOTE 15 LEAD FREE OPTION	E	04	02	02	02	02	02	
	D	04	02	02	02	02	02	
	C	04	02	02	02	02	02	
	B	04	02	02	02	02	02	
	A	04	02	02	02	02	02	
	GND	02	02	02	02	02	02	
METRAL P/N	ROW	PIN CODE						
		1	2	3	4	5	6	
59566-X005 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02	
	D	02	02	02	02	02	02	
	C	02	02	02	02	02	02	
	B	02	02	02	02	02	02	
	A	02	02	02	02	02	02	
	GND	-	02	02	02	02	-	
METRAL P/N	ROW	PIN CODE						
		1	2	3	4	5	6	
59566-X006 SEE NOTE 15 LEAD FREE OPTION	E	03	02	02	02	02	02	
	D	03	02	02	02	02	02	
	C	03	02	02	02	02	02	
	B	03	02	02	02	02	02	
	A	03	02	02	02	02	02	
	GND	-	02	02	02	02	-	

SELECT LOAD PATTERNS							
METRAL P/N	ROW	PIN CODE					
		1	2	3	4	5	6
59566-X007 SEE NOTE 15 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	04	02	02	02	02	02
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	-	02	02	02	02	-

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

* CURRENTLY NOT AVAILABLE

mat'l code	SEE TABLE			tolerances unless otherwise specified			CUSTOMER	FCI www.fciconnect.com
ltr	ecn no.	dr	date				COPY	
M				linear	0.X ±0.3		projection	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.
					0.XX ±0.13			
					.XXX ±.051			
				angles	0° ±2°			
				dr	C. DAILY	2002-01-15	MM	product family METRAL 4000 code 213
				engr	J. VOLSTROF	2001-10-31		
				chr	J. VOLSTORF	2002-01-15	scale 1:1	size A dwg no 59566 sheet 4
				appd	J. VOLSTROF	2002-01-15		
sheet index	revision sheet							cage code 22526

REV E - 2006-04-18

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