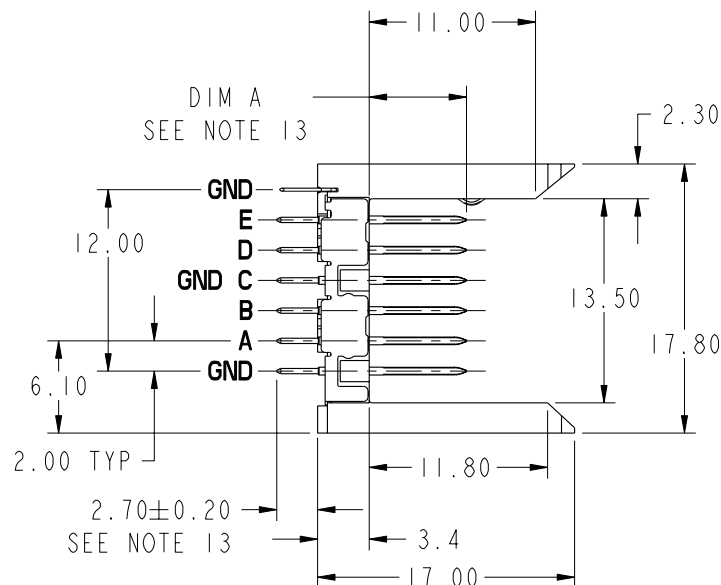




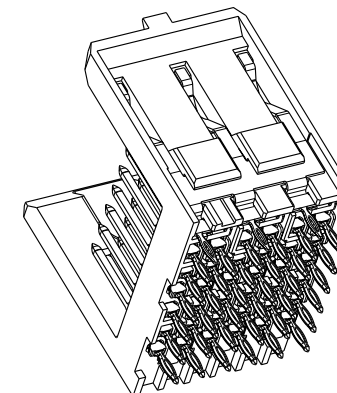
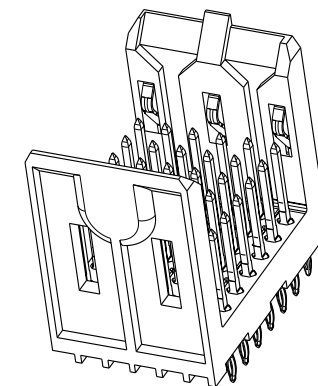
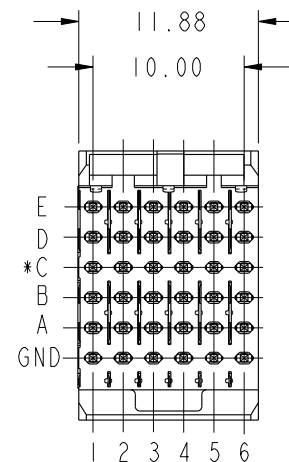
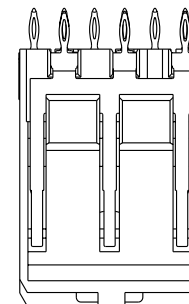
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REV E - 2008-04-18

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



mat'l code SEE TABLE				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com			
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.			
H	V06-0061	DCH	2006-07-07		0.XX ±0.13						
J	V06-0868	DCH	2006-08-29		.XXX ±.051						
K	V07-0174	DCH	2007-04-13	angles	0° ±2°	MM scale 1:1	A	product family		METRAL 4000	code
L	V07-0556	DCH	2007-08-22	dr	C. DAILY	2002-01-15		size	dwg no	59566	sheet 1 of 4
M	V07-0696	HTB	2007-11-28	enrg	J. VOLSTROF	2001-10-31					
-	-	-	-	chr	J. VOLSTROF	2002-01-15					
G	V06-0498	DCH	2006-05-23	appd	J. VOLSTROF	2002-01-15					
sheet index	revision sheet	M	M	M	M						
		1	2	3	4						

Pro/E

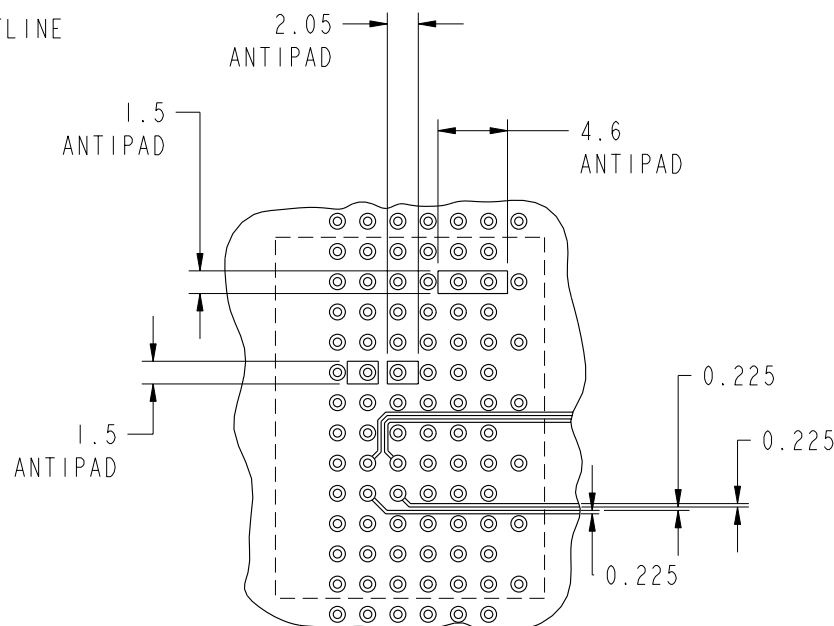
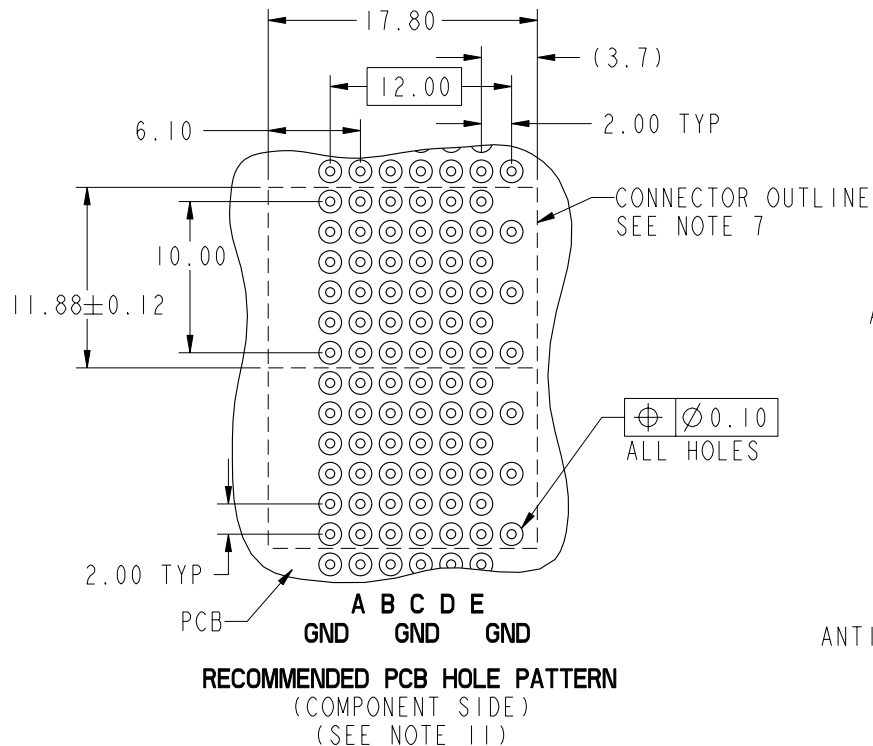
cage code 22526

PDM: Rev:M

STATUS: Released Printed: May 13, 2011



PRODUCT NUMBER
SEE SHEET 1



RECOMMENDED TRACK AND ANTIPAD
DIMENSIONS SCALE 2:1

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	---

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

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-XXXXLF

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.

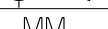
13. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.

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





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	linear	0.X ±0.3				COPY		title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SELECT LOAD STD.			
M					0.XX ±0.13				projection					
					.XXX ±.051									
				angles	0° ±2°						product family		METRAL 4000	code
				dr	C. DAILY	2002-01-15		size			dwg no	213		
				enrg	J. VOLSTROF	2001-10-31		sheet			4			
				chr	J. VOLSTROF	2002-01-15		scale		A		59566		
				appd	J. VOLSTROF	2002-01-15								
sheet index	revision sheet													