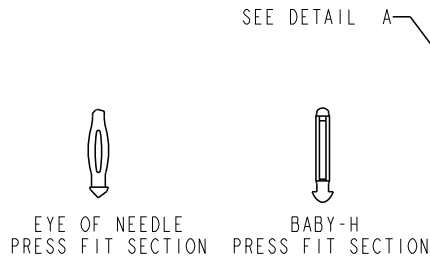


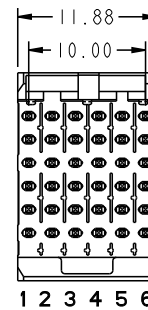
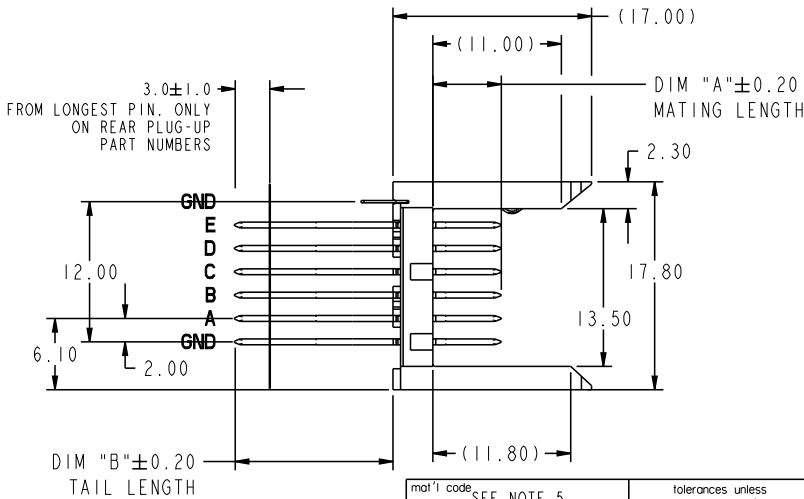
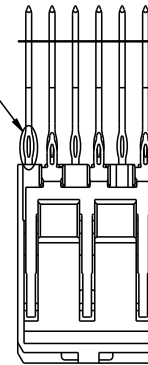


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PRODUCT NO.	PLATING PERFORMANCE LEVEL	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
73983-1ZZZ	TELCORDIA CO	84818-101
73983-1ZZZLF		84818-101LF
73983-2ZZZ	CUSTOMER SPECIAL	84818-301
73983-2ZZZLF		84818-301LF
73983-3ZZZ	CUSTOMER SPECIAL	84818-301
73983-3ZZZLF		84818-301LF
73983-5ZZZ	TELCORDIA UE	84818-501
73983-5ZZZLF		84818-501LF
73983-9ZZZ	TELCORDIA CO	84818-101
73983-9ZZZLF		84818-101LF



DETAIL A  
SCALE 4:1  
SEE NOTE 15



mat'l code				SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER COPY		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	projection			title		VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	
T	V06-0544	DCH	2006-06-09					product family		METRAL 1000 code	
U	V07-0165	DCH	2007-03-14			MM		size		213	
V	V07-0667	HTB	2007-11-07	angles		scale		dwg no		sheet	
W	V08-0009	LP	2008-11-23	dr	K. BELL	2000-03-29		73983		1 of 6	
X	109-0254	RKV	2009-11-13	engr	M. HAHN	2000-03-29					
R	V04-0398	DAI	2004-05-25	chr	RAJKRISHNAN.V	2009-11-13					
S	V05-0405	DAI	2005-05-16	oppd	BIJU K PAUL	2009-11-13					
sheet index	revision	X	X	X	X	X	X				
	sheet	1	2	3	4	5	6				

code code 22526

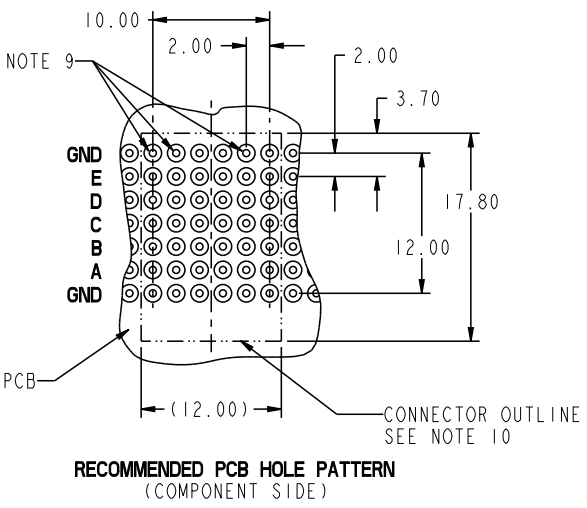
Pro/E

PDM: Rev:X

STATUS: Released

Printed: Nov 16, 2011

PRODUCT NUMBER  
SEE TABLE



RECOMMENDED PCB HOLE PATTERN  
(COMPONENT SIDE)

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

- NOTES:
- SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
  - SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
  - SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATIONS."
  - UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
  - HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
  - PIN MATERIAL: PHOSPHER BRONZE  
GROUND SPRING MATERIAL: PHOSPHER BRONZE
  - PLATING INFORMATION: PLATING ON CONTACT AREAS IS PER PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS SnPb.
  - 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 TO ROW A  
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E  
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A  
FOR MATING 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 ROW C  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A  
DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D & E  
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C  
DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
  - THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLAINT 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.
  - THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
  - 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.
  - CURRENT RATING: 1 AMP PER PIN
  - TEMPERATURE RANGE: -55°C TO +105°C
  - THE 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.
  - FOR LEAD FREE PART NUMBERS, ADD "LF" SUFFIX. EXAMPLE: 73983-XXXXLF
  - PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecm no.	dr	date	linear	angles	projection	COPY	title		VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	
X								product family		METRAL 1000	
				dr	K. BELL	2000-03-29	MM	size	dwg no		213
				engr	M. HAHN	2000-03-29	scale	73983		sheet 2	
				chr	RAJAKRISHNAN.V	2009-11-13	1:1	A			
				oppd	BIJU K PAUL	2009-11-13					
sheet index	revision sheet							code		22526	

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REV E - 2006-04-18



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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 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 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*		5.75	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44	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*	6.50		4.30	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		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

mat'l code: SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER	FCI www.fciconnect.com	
ltr	ecm no.	dr	date	linear	projection	title
X					MM	VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.
				angles	MM	product family
				dr	K. BELL	2000-03-29
				enr	M. HAHN	2000-03-29
				chr	RAJRISHMAN.V	2009-11-13
				oppd	BIJU K PAUL	2009-11-13
sheet index	revision sheet			scale	1:1	code
						213
						sheet
						3
						code
						22526

REV E - 2006-04-18

PDM: Rev:X STATUS:Released Printed: Nov 16, 2011



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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 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 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*		8.00	4.30	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	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

mat'l code: SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCJ www.fciconnect.com	
ltr	ecm no.	dr	date	linear	projection	title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	
X						product family METRAL 1000 code 213	
				angles	MM	size dwg no 73983 sheet 4	
				dr K. BELL 2000-03-29	scale 1:1	code 22526	
				engr M. HAHN 2000-03-29			
				chr RAJKRISHNAN.V 2009-11-13			
				oppd BIJU K PAUL 2009-11-13			
sheet index	revision sheet						

REV E - 2006-04-18

PDM: Rev:X STATUS:Released Printed: Nov 16, 2011



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SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
73983-X001  SEE NOTE 14 LEAD FREE OPTION	E	01
	D	
	C	
	B	
	A	
	GND	
73983-X002 *RPU  SEE NOTE 14 LEAD FREE OPTION	E	22
	D	
	C	
	B	
	A	
	GND	
73983-X003 *RPU  SEE NOTE 14 LEAD FREE OPTION	E	30
	D	
	C	
	B	
	A	
	GND	
73983-X004 *RPU  SEE NOTE 14 LEAD FREE OPTION	E	05
	E	
	C	
	B	
	A	
	GND	

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 2.95 TO 3.80mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 3.25 TO 4.55mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 4.00 TO 5.30mm

\* REAR PLUG UP PART NUMBER

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
73983-X005 *RPU  SEE NOTE 14 LEAD FREE OPTION	E	35
	D	
	C	
	B	
	A	
	GND	
73983-X008 *RPU  SEE NOTE 14 LEAD FREE OPTION	E	09
	D	
	C	
	B	
	A	
	GND	
73983-X011   SEE NOTE 14 LEAD FREE OPTION	E	02
	D	
	C	
	B	
	A	
	GND	
73983-X012 *RPU  SEE NOTE 14 LEAD FREE OPTION	E	44
	D	
	C	
	B	
	A	
	GND	

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 4.75 TO 6.05mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 7.40 TO 8.70mm

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS 2.95 TO 3.80mm

mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER COPY		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	projection	title		VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	
X						product family		METRAL 1000	
				angles		size	dwg no	code	213
				dr	K. BELL	2000-03-29		sheet	5
				engr	M. HAHN	2000-03-29			
				chr	RAJAKRISHNAN.V	2009-11-13	scale		
				oppd	BIJU K PAUL	2009-11-13	1:1		
sheet index	revision sheet								

code code 22526

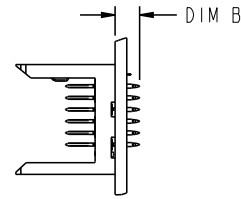
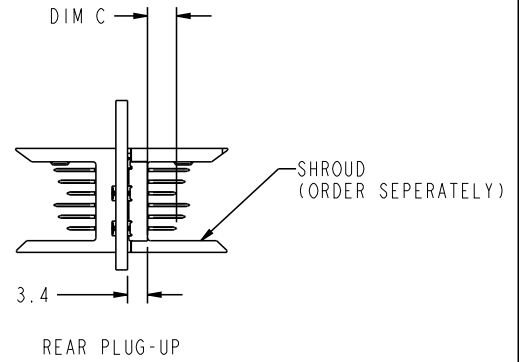
PDM: Rev:X STATUS:Released Printed: Nov 16, 2011



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SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
73983-X021  SEE NOTE 14 LEAD FREE OPTION	E	01
	D	
	C	03
	B	01
	A	
	GND	
73983-X031  SEE NOTE 14 LEAD FREE OPTION	E	03
	D	
	C	
	B	
	A	
	GND	
73983-X032 **  SEE NOTE 14 LEAD FREE OPTION	E	19
	D	
	C	
	B	
	A	
	GND	

PRODUCT #	ROW	COLUMN					
		1	2	3	4	5	6
73983-X033  SEE NOTE 14 LEAD FREE OPTION	E	02	02	02	02	02	02
	D	02	02	02	02	02	02
	C	02	02	02	02	01	02
	B	02	02	02	02	02	02
	A	02	02	02	02	02	02
	GND	02	02	02	02	02	02



\*\* CANNOT BE MATED TO A METRAL 4000 RECEPTACLE

mat'l code: SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	projection	COPY		title	
X								VERTICAL SIGNAL HDR 5 ROW	
				angles				P.F. 30 POS. SPECIAL LOAD STD.	
				dr	K. BELL	2000-03-29		product family	METRAL 1000
				engr	M. HAHN	2000-03-29	MM	size	dwg no
				chr	RAJKRISHNAN.V	2009-11-13	scale	A	73983
				oppd	BIJU K PAUL	2009-11-13	1:1		213
sheet index	revision sheet								sheet 6
								code	22526

PDM: Rev:X STATUS:Released Printed: Nov 16, 2011