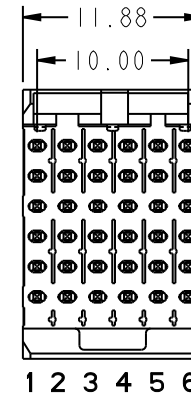
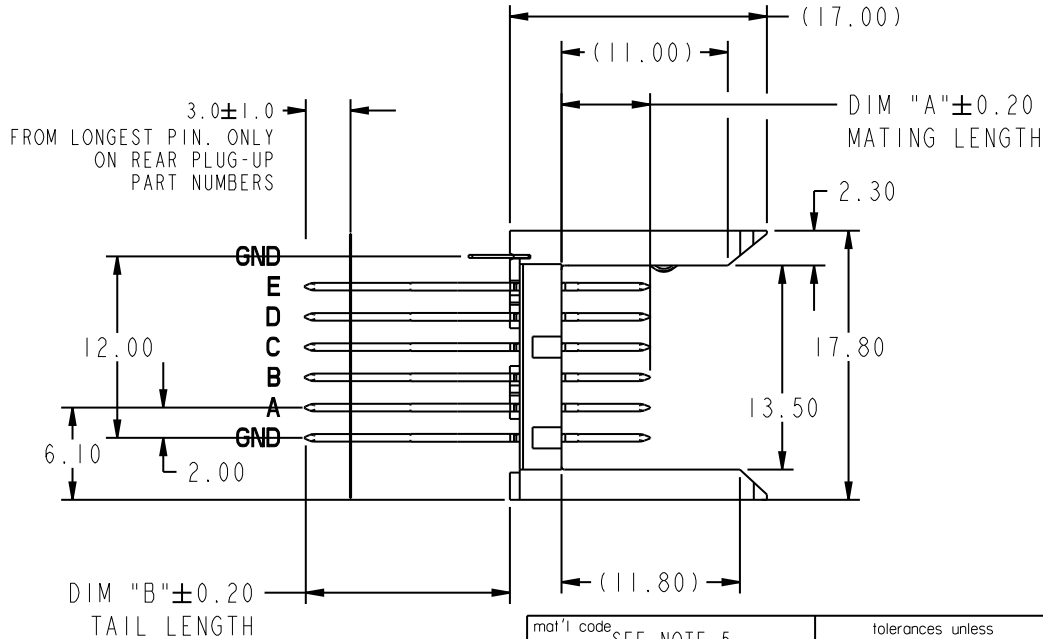
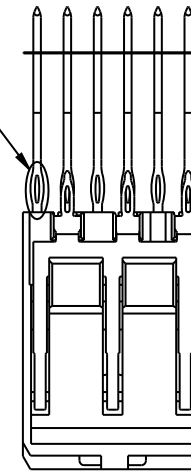


PRODUCT NO.	PLATING PERFORMANCE LEVEL	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
73983-1ZZZ	TELCORDIA CO	84818-101
73983-1ZZZLF		84818-101LF
73983-2ZZZ	CUSTOMER SPECIAL	84818-301
73983-2ZZZLF		84818-301LF
73983-3ZZZ	CUSTOMER SPECIAL	84818-301
73983-3ZZZLF		84818-301LF
73983-5ZZZ	TELCORDIA UE	84818-501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

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

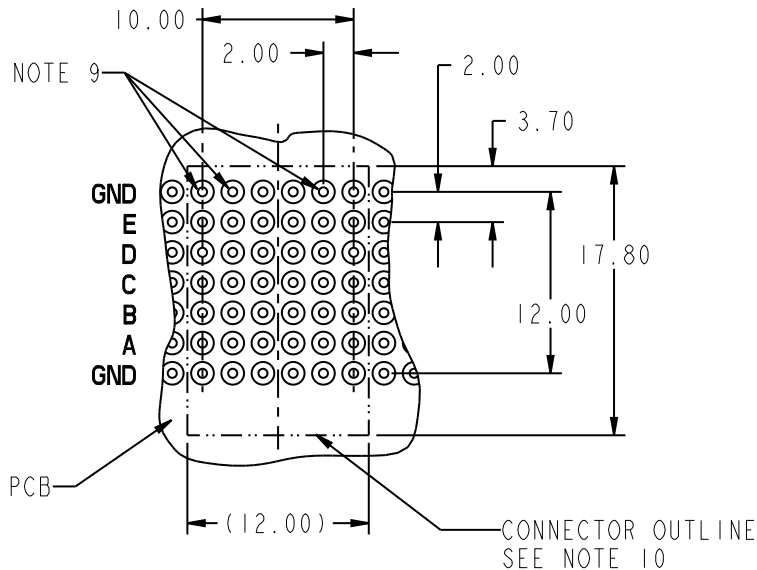
DETAIL A  
SCALE 4:1  
SEE NOTE 15



mat'l code SEE NOTE 5				tolerances unless otherwise specified			CUSTOMER	FCJ www.fciconnect.com	
ltr	ecr no.	dr	date	linear			COPY	projection	
T	V06-0544	DCH	2006-06-09					title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.	
U	V07-0165	DCH	2007-03-14	angles				product family METRAL 1000 code	
V	V07-0667	HTB	2007-11-07		K. BELL	2000-03-29	MM	size	
W	V08-0009	LP	2008-1-23	dr	M. HAHN	2000-03-29		213	
X	109-0254	RKV	2009-11-13	engr	RAJKRISHNAN.V	2009-11-13		sheet	
R	V04-0398	DAI	2004-05-25	chr	BIJU K PAUL	2009-11-13	scale 1:1	1 of 6	
S	V05-0405	DAI	2005-05-16	appd				cage code 22526	
sheet index	revision sheet	X 1	X 2	X 3	X 4	X 5	X 6		

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PRODUCT NUMBER  
SEE TABLE



RECOMMENDED PCB HOLE PATTERN  
(COMPONENT SIDE)

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 APPLICATION."
- 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 I. 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

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

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

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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	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	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



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mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	projection		title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.		
X					angles			product family	
						dr	K. BELL	2000-03-29	code 213
				enr	M. HAHN	2000-03-29	size		sheet 3
				chr	RAJKRISHNAN.V	2009-11-13	scale 1:1 size A dwg no 73983		
				appd	BIJU K PAUL	2009-11-13	sheet index		

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	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



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



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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		www.fcjconnect.com	
ltr	ecr no.	dr	date	linear	projection					
x										
				angles				title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.		
				dr	K. BELL	2000-03-29	product family METRAL 1000		code	
				enr	M. HAHN	2000-03-29	size	213		
				chr	RAJKRISHNAN.V	2009-11-13	dwg no	73983		
				appd	BIJU K PAUL	2009-11-13	scale	A		
sheet index	revision sheet									