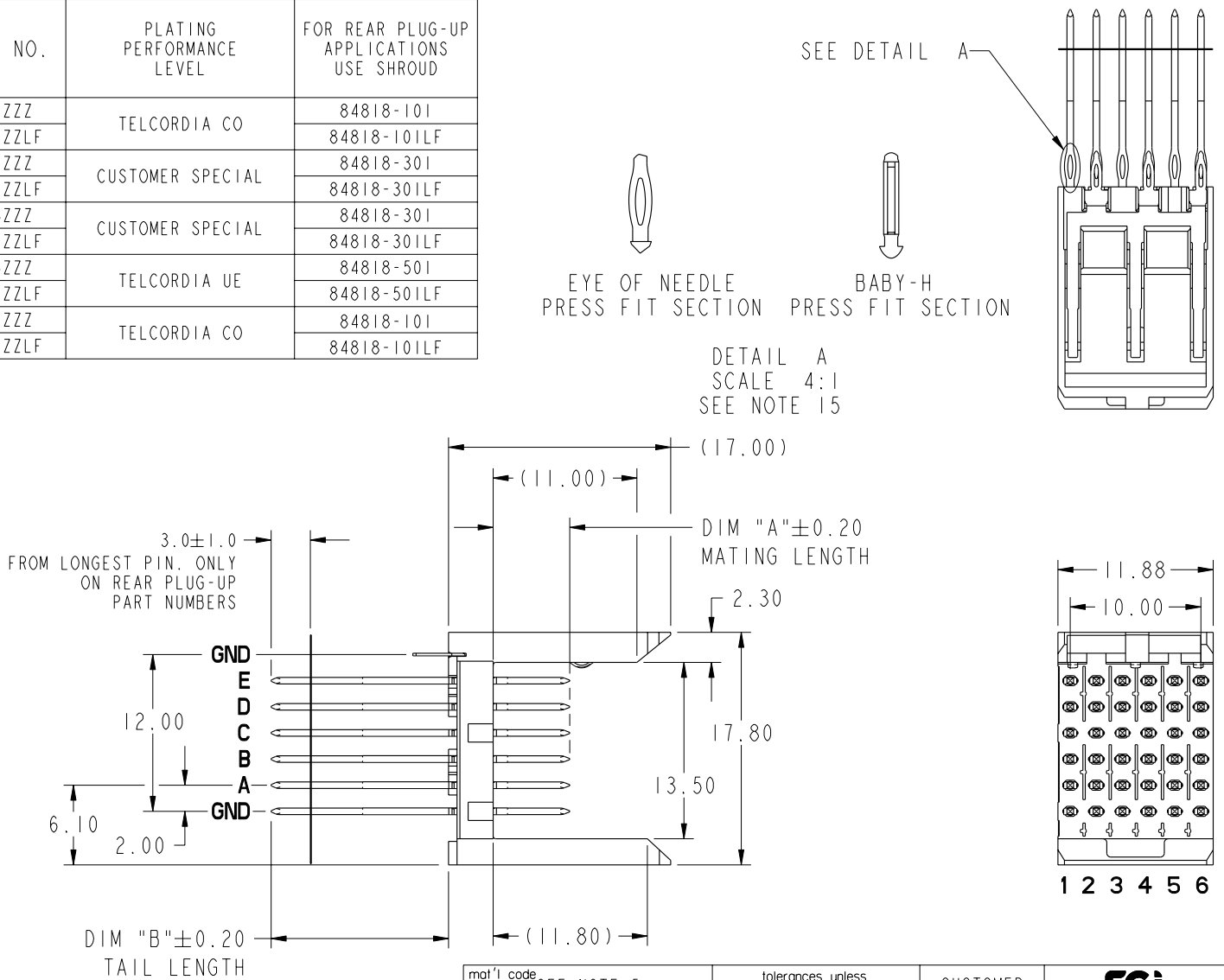
PRODUCT NO.	PLATING PERFORMANCE LEVEL	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
73983-1ZZZ	TELCORDIA CO	84818-101
73983-1ZZZLF		84818-101LF
73983-2ZZZ	CUSTOMER SPECIAL	84818-301
73983-2ZZZLF		84818-301LF
73983-3ZZZ	CUSTOMER SPECIAL	84818-301
73983-3ZZZLF		84818-301LF
73983-5ZZZ	TELCORDIA UE	84818-501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



mat'l code SEE NOTE 5				tolerances unless otherwise specified			
ltr	ecn no.	dr	date				
T	V06-0544	DCH	2006-06-09	linear			
U	V07-0165	DCH	2007-03-14				
V	V07-0667	HTB	2007-11-07	angles			
W	V08-0009	LP	2008-1-23	dr	K. BELL	2000-03-29	
-	-	-	-	engr	M. HAHN	2000-03-29	
R	V04-0398	DAI	2004-05-25	chr	M. HAHN	2000-03-29	
S	V05-0405	DAI	2005-05-16	appd	M. HAHN	2000-03-29	

sheet index	revision	W	W	W	W	W	W
	sheet	1	2	3	4	5	6

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projection

MM

scale 1:1

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

product family METRAL 1000 | code 213

size A | dwg no 73983 | sheet 1 of 6

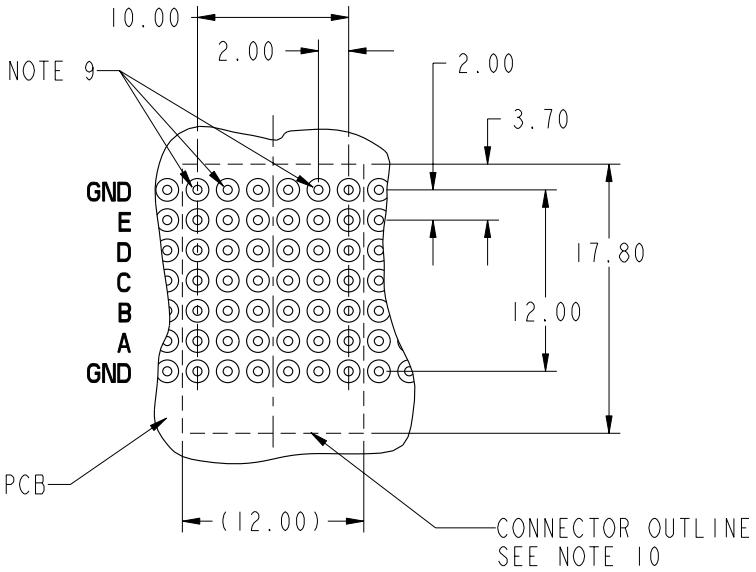
cage code 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:W STATUS:Released Printed: Sep 11, 2008

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:
1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FCI PUBLICATION 95051I-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCI PUBLICATION 95051I-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
   PIN MATERIAL: PHOSPHER BRONZE
   GROUND SPRING MATERIAL: PHOSPHER BRONZE
6. 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.
7. 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
8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLAINT SECTIONS OF THE GROUNG 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.
9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. 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.
11. CURRENT RATING: 1 AMP PER PIN
12. TEMPERATURE RANGE: -55°C TO +105°C
13. 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.
14. FOR LEAD FREE PART NUMBERS, ADD 'LF' SUFFIX. EXAMPLE: 73983-XYYYLF
15. 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	ecn no.	dr	date					COPY	
W				linear				projection	title: VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD.
				angles					
				dr	K. BELL	2000-03-29		MM	product family: METRAL 1000 / code: 213
				engr	M. HAHN	2000-03-29			size: A / dwg no: 73983 / sheet: 2
				chr	M. HAHN	2000-03-29		scale: 1:1	
				appd	M. HAHN	2000-03-29			
sheet index	revision sheet								cage code: 22526

REV E - 2006-04-18

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PDM: Rev:W STATUS:Released Printed: Sep 11, 2008

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

mat'l code SEE NOTE 5				tolerances unless otherwise specified			
ltr	ecn no.	dr	date				
W				linear			
				angles			
				dr	K. BELL	2000-03-29	
				engr	M. HAHN	2000-03-29	
				chr	M. HAHN	2000-03-29	
				appd	M. HAHN	2000-03-29	
sheet index	revision sheet						

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projection

MM

scale 1:1

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

product family

code 213

size A

dwg no 73983

sheet 3

cage code 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:W STATUS:Released Printed: Sep 11, 2008

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*		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	7.25	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*		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	8.00	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 COPY
ltr	ecn no.	dr	date	linear			projection
W							
				angles			
				dr	K. BELL	2000-03-29	MM
				engr	M. HAHN	2000-03-29	
				chr	M. HAHN	2000-03-29	scale 1:1
				appd	M. HAHN	2000-03-29	
sheet index	revision sheet						

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product family METRAL 1000 | code 213

size A | dwg no 73983 | sheet 4

cage code 22526

REV E - 2006-04-18

Pro/E

PDM: Rev:W STATUS:Released Printed: Sep 11, 2008

SPECIAL LOAD PATTERNS

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

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 D C B A GND	35
73983-X008 *RPU SEE NOTE 14 LEAD FREE OPTION	E D C B A GND	09
73983-X011 SEE NOTE 14 LEAD FREE OPTION	E D C B A GND	02 01
73983-X012 *RPU SEE NOTE 14 LEAD FREE OPTION	E D C B A GND	44 22

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
ltr	ecn no.	dr	date	linear			projection
W							
				angles			
				dr	K. BELL	2000-03-29	MM
				engr	M. HAHN	2000-03-29	
				chr	M. HAHN	2000-03-29	scale 1:1
				appd	M. HAHN	2000-03-29	
sheet index	revision sheet						

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

product family METRAL 1000 | code 213

size A | dwg no 73983 | sheet 5

cage code 22526

REV E - 2006-04-18

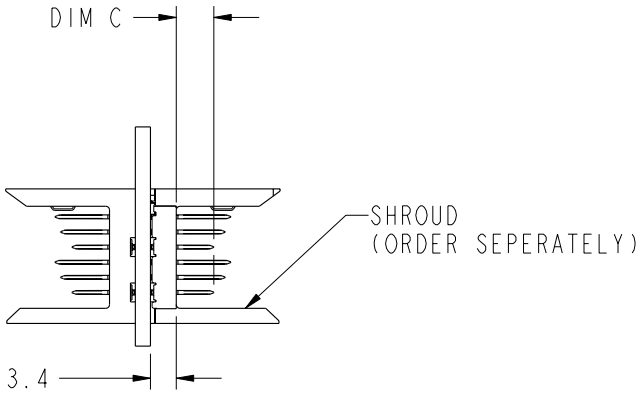
Pro/E

PDM: Rev:W STATUS:Released Printed: Sep 11, 2008

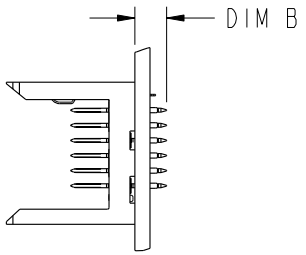
SPECIAL LOAD PATTERNS

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	01
73983-X032 ** SEE NOTE 14 LEAD FREE OPTION	E	19
	D	
	C	
	B	
	A	
	GND	01

** CANNOT BE MATED TO A METRAL 4000 RECEPTACLE



REAR PLUG-UP



mat'l code SEE NOTE 5				tolerances unless otherwise specified			CUSTOMER COPY
ltr	ecn no.	dr	date	linear			projection
W							
				angles			
				dr	K. BELL	2000-03-29	MM
				engr	M. HAHN	2000-03-29	
				chr	M. HAHN	2000-03-29	scale 1:1
				appd	M. HAHN	2000-03-29	
sheet index	revision sheet						

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

product family METRAL 1000 | code 213

size A | dwg no 73983 | sheet 6

cage code 22526

REV E - 2006-04-18

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