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PRODUCT NUMBER SEE TABLE

> 10.00 +2.00 -2.00 NOTE 3.70 **GND** D 17.80\$\circ 12.00 Α GND PCB-**--** ( | 2 , 00 ) **--**CONNECTOR OUTLINE SEE NOTE 10

## RECOMMENDED PCB HOLE PATTERN (COMPONENT SIDE)

NOTES:

- I. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS
- 2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS.
- 3. SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION.'
- 4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME YI4.5, 1994
- HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-VO.

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 I. 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.

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.

II. CURRENT RATING: I 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.

FOR LEAD FREE PART NUMBERS, ADD 'LF' SUFFIX. EXAMPLE: 73983-XYYYLF PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN

BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

PRESS-FIT HOLES	OPTION I					
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 'I	code	EE N	ОТЕ	5			tolera otherw	nces u ise spe			CU	STOM	ΕR		F	Sj					
Itr	ecn	no.	dr	do	ate							COPY		www.fciconnec							
W						linear	p				projec	tion		title VERTICAL SIGNAL HDR 5							\W
															P.F. 30 POS. SPECIAL LOAD						
						angles					7	9 7 1.1. 30 103							1 L L	JAU	J 1 D .
						dr	K. BELL 2000-03-29			03-29		MM		produ	ict fam	nily	METR	AL I	000	code	
						engr	M. HAHN 2000-03-29			101101			size dwg no						2	13	
						chr	M. HAHN 2000-03-		03-29	scale			l <sub>Λ</sub>	73983						et	
						appd	М. І	HAHN	2000-	03-29	1:1		A	$A \mid 13303 \mid$					;	2	
she	et	revisi	on																		
ind	index shee																				
			ro/E							3			cag	e code	, 2	252	96		4		

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REV E - 2006-04-18

1 1	

DIM B

TAIL

4.30

12.20

12.95

13.70

16.40

17.10

4.30

12.20

12.95

13.70

14.45

15.20

15.70

16.40

17.10

1.60 MIN

1.60 MIN

2.95 - 3.80

2.95 - 4.55

DIM A

MATING

PIN

NO.

0 | \*

22

30

0.5

35

48

40

65

09

02\*

44

31

06

36

49

25

66

1.0

03\*

45

32

07

37

50

41

24

5.75

6.50

PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH

WHEN MATING TO A 73981 OR WHEN MATING TO A 52057 SERIES 84688 SERIES RECEPTACLE METRAL 4000 RECEPTACLE

LENGTH LENGTH ROWS A, B, C, D, &E GROUND ROW ROWS: A.B.D&E GROUND ROW ROW C 4.30 1.60 MIN 1.60 MIN 1.60 MIN 1.60 MIN 1.60 MIN 12.20 2.95 - 3.802.95 - 4.20 2.95 - 4.202.95 - 3.802.95 - 3.80

12.95 2.95 - 4.553.25 - 4.952.95 - 4.552.95 - 4.55 3.25 - 4.9513.70 2.95 - 5.30 4.00 - 5.703.30 - 5.30 2.95 - 5.30 4.00 - 5.70 4.75 - 6.454.05 - 6.055.00 14.45 3.05 - 6.053.05 - 6.054.75 - 6.4515.20 3.80 - 6.80 5.50 - 7.20 4.80 - 6.80 3.80 - 6.80 5.50 - 7.20

15.70 4.30 - 7.30 6.00 - 7.705.30 - 7.304.30 - 7.30 6.00 - 7.7016.40 5.00 - 8.00 6.70 - 8.40 6.00 - 8.006.70 - 8.40 5.00 - 8.0017.10 5.70 - 8.70 7.40 - 9.10 6.70 - 8.70 5.70 - 8.70 7.40 - 9.10

1.60 MIN

2.95 - 3.802.95 - 4.20 2.95 - 3.802.95 - 3.80 2.95 - 4.202.95 - 4.553.25 - 4.95 2.95 - 4.552.95 - 4.553.25 - 4.952.95 - 5.30 4.00 - 5.70 3.30 - 5.302.95 - 5.30 4.00 - 5.70

1.60 MIN

14.45 3.05 - 6.05 4.75 - 6.45 4.05 - 6.05 3.05 - 6.05 4.75 - 6.45 15.20 5.50 - 7.20 3.80 - 6.80 4.80 - 6.80 3.80 - 6.80 5.50 - 7.20 15.70 4.30 - 7.30

6.00 - 7.705.30 - 7.304.30 - 7.306.00 - 7.706.70 - 8.40 5.00 - 8.00 6.00 - 8.005.00 - 8.00 6.70 - 8.406.70 - 8.70 7.40 - 9.10 5.70 - 8.70 7.40 - 9.105.70 - 8.70

> 1.60 MIN 1.60 MIN 1.60 MIN 1.60 MIN 2.95 - 4.202.95 - 3.802.95 - 3.802.95 - 4.203.25 - 4.952.95 - 4.55 2.95 - 4.55 3.25 - 4.95

1.60 MIN

2.95 - 5.30 4.00 - 5.70 3.30 - 5.302.95 - 5.30 4.00 - 5.703.05 - 6.05 4.75 - 6.45 4.05 - 6.05 3.05 - 6.05 4.75 - 6.45 3.80 - 6.80 5.50 - 7.204.80 - 6.80 3.80 - 6.80 5.50 - 7.20

6.00 - 7.705.30 - 7.304.30 - 7.306.00 - 7.706.70 - 8.406.00 - 8.005.00 - 8.006.70 - 8.40

4.30 - 7.30 5.00 - 8.00 5.70 - 8.70 7.40 - 9.106.70 - 8.705.70 - 8.70 7.40 - 9.10

> mat'l code SEE NOTE 5 tolerances unless CUSTOMER otherwise specified Itr dr date COPY ecn no. projection W linear title VERTICAL SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD angles dr K. BELL 2000-03-29 product family

1.60 MIN

MM M. HAHN 2000-03-29 size dwg no engr 2000-03-29 scale M. HAHN M. HAHN 2000-03-29 bage sheet revision

sheet Pro/E

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code

213

В

sheet

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73983

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РСВ	THICKNESS	RANGE
ACCOMMO	DATED BY	PIN LENGTH

						B THICKNESS RANG MODATED BY PIN L		
	PIN NO.	DIM A MATING LENGTH		WHEN MATING T 84688 SERIES			ATING TO A 52057 RAL 4000 RECEPTA	
				ROWS A,B,C,D,&E	GROUND ROW	ROWS:A,B,D&E	ROW C	GROUND ROW
	04*		4.30	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN	I.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	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN	I.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
4	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

Д

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mot'l code SEE NOTE 5 tolerances unless CUSTOMER otherwise specified ecn no. dr date COPY www.fciconnect.com projection FINE PRICE SIGNAL HDR 5 ROW P.F. 30 POS. SPECIAL LOAD STD linear angles METRAL 1000 code 213 K. BELL 2000-03-29 MM product family dr engr M. HAHN 2000-03-29 size dwg no M. HAHN 2000-03-29 scale 73983 sheet 4 M. HAHN 2000-03-29 appd revision sheet

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PIN CODES

35

09

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SPECIAL LOAD PATTERNS

ROW

PRODUCT #

4

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	SPECIAL LC	AD	PATTERNS
	PRODUCT #	ROW	PIN CODES
	73983-X00I	E	
		D	
	SEE NOTE 14	С	0
	LEAD FREE	В	
	OPTION	А	
		GND	
	73983-X002	E	
	* R P U	D	
	SEE NOTE 14	С	22
	LEAD FREE OPTION	В	
	OFITON	A	
		GND	
	73983-X003 *RPU	E	
	* K Y U	D	
	SEE NOTE 14	С	30
	LEAD FREE OPTION	В	
	0111011	A	
	70000 000	GND	
1	73983-X004 *RPU	E	
	*111 0	E	
	SEE NOTE 14	С	0.5
	LEAD FREE OPTION	В	
		A	
		GND	

73983-X005 \*RPU D CSEE NOTE 14 LEAD FREE OPTION Α GND 73983-X008 Ε \*RPU PCB THICKNESS D RANGE FOR REAR CPLUG UP SEE NOTE 14 В APPLICATIONS LEAD FREE 2,95 TO 3,80mm Α OPTION GND 73983-X011 Ε PCB THICKNESS D RANGE FOR REAR C PLUG UP SEE NOTE 14 APPLICATIONS В LEAD FREE 3.25 TO 4.55mm Α OPTION GND 73983-X012 Ε \*RPU PCB THICKNESS D RANGE FOR REAR C PLUG UP В SEE NOTE 14 APPLICATIONS 4.00 TO 5.30mm LEAD FREE Α OPTION 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

\* REAR PLUG UP PART NUMBER

mat 'I				inces u			CU	STOM	ER	FG)											
Itr	ecn	no.	dr	do	te							COPY				=		ww	w.fcic	onnect.com	
W						linear	ear pr				projec	tion		titlevertical signal HDR 5 RC							
						angles						→ <	$\exists$	P.F. 30 POS. SPECIAL LOAD S						DAD STD.	
						dr	Κ.	K. BELL 2000-03-29		MM			produ	ct fam	ily	METR	AL I	000	code		
						engr	М.	HAHN	2000-	03-29	101101		-	size	size dwg no						
						chr	М.	HAHN	2000-	03-29	scale			1 /	73983				sheet		
						appd	М.	HAHN	2000-	03-29		1:1		$\square$	1000					5	
she	eet	revisi	ion																		
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SPECIAL LOAD PATTERNS PRODUCT # ROW PIN CODES 73983-X021 0 1 D C 03 SEE NOTE 14 LEAD FREE В OPTION Α 0 1 GND 73983-X031 D SEE NOTE 14 03 LEAD FREE В OPTION Α GND 0 1 73983-X032 \* \* D SEE NOTE 14 LEAD FREE 19 В OPTION Α GND 0 1

DIM C --SHROUD (ORDER SEPERATELY) REAR PLUG-UP

► DIM B



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

mat 1	code S E	E N	ОТЕ	5				inces u			CU	STOM	ER	FC)										
Itr	ecn r	no.	dr	da	te							COPY			www.fciconnect.com									
W						linear		ρι				tion		title VERTICAL SIGNAL HDR 5 ROV										
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					c	angles						P.F. 30 POS. SPECIAL LC							JAU 、	ן.עונ				
						dr	Κ.	BELL	2000-	03-29		MM		product family METRAL 1000 code										
						engr	М.	HAHN	2000-	03-29	-	1 V 11 V 1	<del>-</del>	size	dwg	no		1 213 1	. 3					
						chr	М.	HAHN	2000-	03-29	scale			_ \	73983					sheet				
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