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					PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH									
		DIM A DIM B WHEN MATING TO SERIES METRAL 100			WHEN MATING TO A 52066 SERIES METRAL 4000 RECEPTACLE									
				ROWS A,B,C, D,E,F,G & H	GROUND ROW	ROWS:A,B,D,E,G & H	ROW C & F	GROUND ROW						
	0 *		4.30	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN	I.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	5.00	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*		4.30	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN						
	4 4		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20						
ļ	31		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95						
ļ	06		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70						
ļ	36	5.75	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						
4	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*		4.30	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN	I.60 MIN						
۱,	45		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20						
ŀ	32		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95						
-	0.7		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70						
-	37	6.50	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						
-	4		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						
L	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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* STUB PINS - NO REAR PLUG-UP

** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

mot'l code SEE NOTE 5 tolerances unless CUSTOMER otherwise specified 0.X ±0.3 ecn no. dr date COPY www.fciconnect.com 0.XX ±0.13 projection Title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT. linear .XXX ±.051 0° ±2° E. KROPER. 2001-01-15 METRAL 2000 code product family dr MM engr VOLSTORF 2001-01-15 size dwg no chr J. VOLSTORF 2001-01-15 scale sheet 6374 appd J. VOLSTORF 2001-01-15 sheet revision 3 l 4 Pro/E 22526

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			PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH											
PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	WHEN MATING SERIES METRAL		WHEN MATING TO A 52066 SERIES METRAL 4000 RECEPTACLE									
			ROWS A,B,C, D,E,F,G & H	GROUND ROW	ROWS:A,B,D,E,G & H	ROW C & F	GROUND ROW							
04*		4.30	I.60 MIN	I.60 MIN	1.60 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							
9*		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							
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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* STUB PINS - NO REAR PLUG-UP

** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

mat'l code SEE NOTE 5							tolerances unless otherwise specified					STOM	ER	FG)							
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						.XXX ±.051							P.F. 96 POS. SELECT LOAD					VU E	EYT		
						angles	les 0° ±2°		7	ケト	\Box	T.T. 90 TOS. SELECT LOAD EXT.									
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		1 2				<u> </u>	_
1		SELECT LOAD PATTERNS		METRAL	L	CONTACT CODE	
	METRAL	CONTACT CODE		P/N	R	ROW 2 3 4 5 6 7 8 9 10 11 12 PCB THICKNESS	
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		H 02 02 02 02 02 02 02 02 02 02 02 02 02				0 24 24 24 24 24 24 24 24 24 24 24 24 24	
		G 02 02 02 02 02 02 02 02 02 02 02 02 02		63741-X		F 12 12 12 12 12 12 12 1	
	63741-X01	F 03 03 03 03 03 03 03 03 03 03 03 03 03		*RPU SEE NOTE		E 25 25 25 25 25 25 25 25 25 25 25 25 25	
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	METDAL	CONTACT CODE	[P/N	R	ROW 2 3 4 5 6 7 8 9 10 11 12 PCB THICKNESS	
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	SEE NOTE 16		APPLICATIONS:	OPTION		B 49 49 49 49 49 49 49 49 49 49 49 49 49	
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	METRAL P/N	CONTACT CODE					
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А		G 03 03 03 03 03 03 03 03 03 03 03 03 03					1
	C 2 7 4 1 V A 2	F 04 04 04 04 04 04 04 04 04 04 04 04 04					
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9 "		A 03 03 03 03 03 03 03 03 03 03 03 03 03					
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	METRAL P/N	CONTACT CODE					
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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 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
- 4. UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME YI4.5M. 1994
- HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED. FLAME RETARDANT PER UL 94-VO. PIN MATERIAL: PHOSPHER BRONZE GROUND SPRING MATERIAL: PHOSPHER BRONZE STRIPLINE SHIELD MATERIAL: PHOSPHER BRONZE
- 6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS AS 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-H

 - 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-H
 - 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, G & H
 - DIM A: 5.00mm MIN. 8.00mm MAX FOR ROWS C & F
 - 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, G & H

 - DIM C: 5.00mm MIN, 8.00mm MAX FOR ROWS C & F
 - 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 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.
- II. CURRENT RATING : I AMP PER PIN
- 12. TEMPERATURE RANGE : -55°C TO +105°C
- 13. P/N 63741-XYYLF LEAD FREE (OPTIONAL) SELECT LOAD PATTERN PLATING CODE
- FOR FRONT PLUG-UP APPLICATIONS, THE EVEN NUMBERED PINS IN ROW 'C'& 'F' CAN BE USED FOR POWER AS WELL AS FOR 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 I AMP. WHEN THE SURROUNDING PINS ARE USED ONLY FOR LOW SPEED SIGNALS, THEN THE EVEN NUMBERED 'C' AND 'F' ROW PINS CAN ALSO BE USED FOR LOW SPEED SIGNALS. THIS IS NOT TRUE FOR REAR PLUG-UP APPLICATIONS USING METRAL 2000 SHROUD AS IN THIS CASE ALL 'C' AND 'F' ROW PINS ARE COMMON TO GROUND.
- 15. PRODUCTS WHERE THE PART NUMBERS 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: 63741-XYYLF
- 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					CU	STOM	ER	FC)								
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