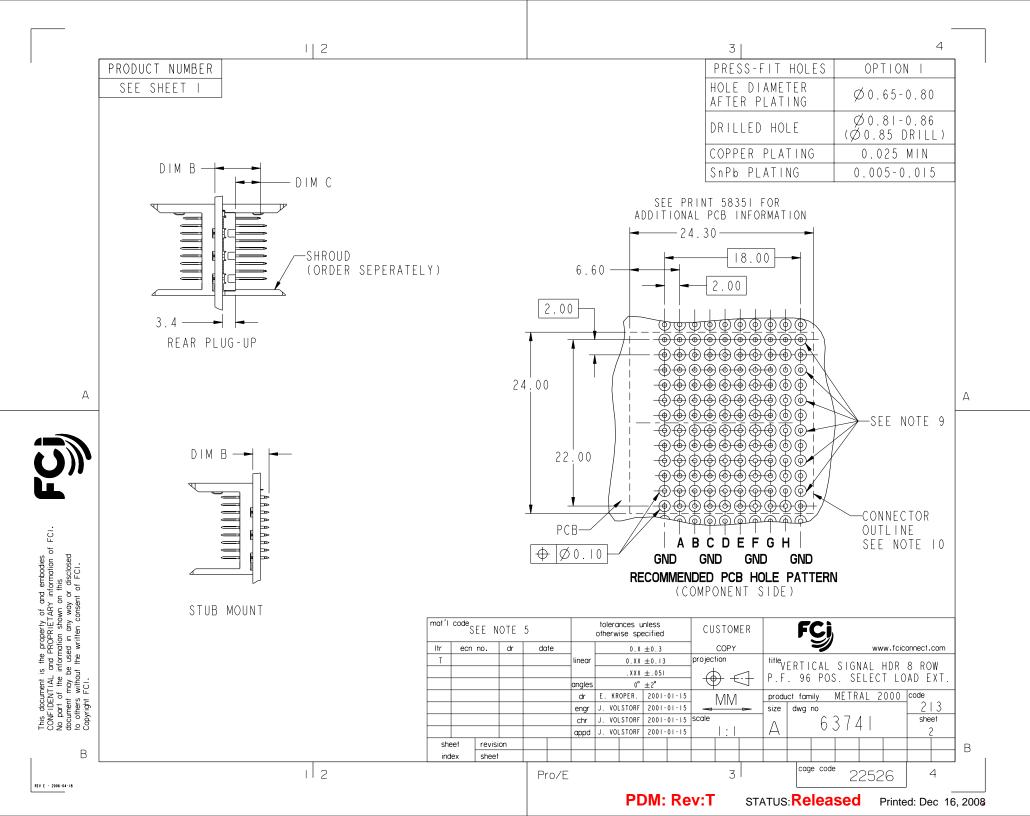




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						CB THICKNESS RANGE						
	.				100000000	DATED DI FIN STATE	LENGIH					
		MATING	DIM B TAIL	WHEN MATING SERIES METRAL I	TO A 74981		NG TO A 52 4000 RECE		ES			
	NO.	LENGTH	LENGIH	ROWS A, B, C,		ROWS:A.B.D.E.G & H	ROW C &		GROUND ROI	N		
-	0 *		4.30	D,E,F,G & H I.60 MIN	1.60 MIN	I.60 MIN	I.60 MI		1.60 MIN			
-	22		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3		2.95 - 4.2	0		
	30		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4		3.25 - 4.9	5		
	05		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5	. 30 🗸	1.00 - 5.7	0		
	35	5.00	14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6	. 0 5 4	1.75 - 6.4	5		
	48		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6	. 80 5	5.50 - 7.2	0		
L	40		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7		5.00 - 7.7			
	65	-	16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8		.70 - 8.4)		
L	09		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8		.40 - 9.1	0		
L	02*		4.30	1.60 MIN	1.60 MIN	1.60 MIN	I.60 MI		1.60 MIN			
	44		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3		2.95 - 4.2			
	31	-	12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4		3.25 - 4.9			
_	06 36	5 7 5	13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5		1.00 - 5.7			
-	49	5.75	14.45	<u>3.05 - 6.05</u> <u>3.80 - 6.80</u>	4.75 - 6.45 5.50 - 7.20	4.05 - 6.05 4.80 - 6.80	<u>3.05 - 6</u> <u>3.80 - 6</u>		1 <u>.75 - 6.4</u> 5.50 - 7.2			
	25	-	15.20	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7		5.00 - 7.7			
	66	-	16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	<u>4.30 - 7</u> 5.00 - 8		5.00 - 7.7 5.70 - 8.4			
	10	-	17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8		.40 - 9.1			
~	03*		4.30	I.60 MIN	1.60 MIN	I.60 MIN	1.60 MI		1.60 MIN	<u> </u>		
- M -	45	-	12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3		2.95 - 4.2	0		
))' -	32		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4		3.25 - 4.9			
	07		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5		1.00 - 5.7			
	37	6.50	14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6		1.75 - 6.4			
	50	1	15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6	.80 5	5.50 - 7.2	0		
	4]	15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7	.30 6	5.00 - 7.7	0		
	24		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8	.00 6	5.70 - 8.4	0		
. sed			17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8	. 70 7	′.40 - 9.I	0		
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in any						mat'l code SEE NOTE 5		tolerances otherwise	specified	CUSTOMER	FCj	
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ers i ght F	* * .	ТНЕ СР	ENTERT	- RANGE ACCUD	S WHEN THE P		dr eng		. 2001-01-15 RF 2001-01-15	MM	product family METRAL 2000 c size dwg no	code 2 3
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						PCB THICKNESS RANGE DMMODATED BY PIN LEN	NGTH		
MATING		WHEN MATING SERIES METRAL	TO A 74981 1000 RECEPTACLE	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	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	
	9*		4.30	I.60 MIN	1.60 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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REV E - 2006-04-18

* 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.

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mot'l code SEE NOTE 5					tolerances unless otherwise specified						STOM	ER		F	Cj							
ltr	ecn	no.	dr	do	ite			0.X	±0.3]	COPY				Y		w١	ww.fcic	w.fciconnect.com		
Т						linear		0.XX	±0.13		projection			title,	грті	C A I	010	NI A I		0.00		
	.XXX ±. 051					titlevertical signal HDR 8 ROW																
		c	Ingles	5 0° ±2°			1 4	ナモ	1	P.F. 96 POS. SELECT LOAD EXT.												
						dr	E. I	(ROPER.	2001	-0 - 5		MM		produ	ict fan	nily	METF	AL 2	2000	code		
						engr	J. V	OLSTORF	2001	-0 - 5		VIIVI	-	size	dwg	no				213		
						chr	J. V	OLSTORF	2001	-0 - 5	scale					6	37.	ΛΙ		sheet		
						appd	J. V	OLSTORF	2001	-0 - 5		1:1		A		V	\mathcal{I}	+ 1		4		
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I	METRAL P/N 63741-X01 STUB MOUNT	SELECT LOAD PATTERNS contact code ROW 1 2 3 4 5 6 7 8 9 10 11 12 H 0.2 <t< td=""><td>-</td><td></td><td></td><td>METR. P/N 63741- *RP SEE NOT LEAD F</td><td>- X05 U FE 16</td><td>ROW I 2 3 4 H 2.5 2.5 2.5 2.5 G 2.4 2.4 2.4 2.4 F 1.2 1.2 1.2 1.2 E 2.5 2.5 2.5 2.5 D 2.4 2.4 2.4 2.4 C 1.2 1.2 1.2 1.2</td><td>5 25 25 25 2 4 24 24 24 2 2 12 12 12 1 5 25 25 25 2</td><td>8 9 10 11 12 5 25 25 25 25 4 24 24 24 24 2 12 12 12 12 5 25 25 25 25 4 24 24 24 24 2 12 12 12 12 5 25 25 25 25 4 24 24 24 24 2 12 12 12 12</td><td>PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 5.70 - 7.20 FOR METRAL 1000 APPLICATIONS (RECEPTACLE)</td><td></td></t<>	-			METR. P/N 63741- *RP SEE NOT LEAD F	- X05 U FE 16	ROW I 2 3 4 H 2.5 2.5 2.5 2.5 G 2.4 2.4 2.4 2.4 F 1.2 1.2 1.2 1.2 E 2.5 2.5 2.5 2.5 D 2.4 2.4 2.4 2.4 C 1.2 1.2 1.2 1.2	5 25 25 25 2 4 24 24 24 2 2 12 12 12 1 5 25 25 25 2	8 9 10 11 12 5 25 25 25 25 4 24 24 24 24 2 12 12 12 12 5 25 25 25 25 4 24 24 24 24 2 12 12 12 12 5 25 25 25 25 4 24 24 24 24 2 12 12 12 12	PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 5.70 - 7.20 FOR METRAL 1000 APPLICATIONS (RECEPTACLE)	
	SEE NOTE 16 LEAD FREE OPTION METRAL P/N	5 D 0.2 <th0.2< th=""> <th0.2< th=""> <th0.2< th=""></th0.2<></th0.2<></th0.2<>				OPTI METR P/N	ON AL	B 49 25 25 25 A 48 24 24 24 25 GND 49 49 49 49 49 49 49 ROW I 2 3 4 49	4 24 24 24 24 9 49 49 49 4 CONTACT CODE 5 6 7 9 49 49 49	9 49 49 49 49 8 9 10 11 12 9 49 49 49 49	ADD 6.00 - 7.20 FOR METRAL 4000 APPLICATIONS. PCB THICKNESS RANGE FOR REAR	
	63741-X02 *RPU SEE NOTE 16 LEAD FREE OPTION	H 49 </td <td>PCE RAN PLU APF 5.5</td> <td>3 THICKNE NGE FOR R JG UP PLICATION 50 - 6.80</td> <td>EAR</td> <td>63741- *RP SEE NOT LEAD F OPTI</td> <td>U TE 16 Free</td> <td>C 41 41 4 B 49 49 49 4</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>1 41 41 41 9 49 49 49 9 49 49 49 9 49 49 49 1 41 41 41 9 49 49 49 9 49 49 49 9 49 49 49 9 49 49 49 9 49 49 49 9 49 49 49</td> <td>PLUG UP APPLICATIONS: 4.75 - 6.45 FOR METRAL 1000 APPLICATIONS (RECEPTACLE) ADD 4.80 - 6.45 FOR METRAL 4000 APPLICATIONS.</td> <td></td>	PCE RAN PLU APF 5.5	3 THICKNE NGE FOR R JG UP PLICATION 50 - 6.80	EAR	63741- *RP SEE NOT LEAD F OPTI	U TE 16 Free	C 41 41 4 B 49 49 49 4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 41 41 41 9 49 49 49 9 49 49 49 9 49 49 49 1 41 41 41 9 49 49 49 9 49 49 49 9 49 49 49 9 49 49 49 9 49 49 49 9 49 49 49	PLUG UP APPLICATIONS: 4.75 - 6.45 FOR METRAL 1000 APPLICATIONS (RECEPTACLE) ADD 4.80 - 6.45 FOR METRAL 4000 APPLICATIONS.	
А	METRAL P/N	CONTACT CODE ROW I 2 3 4 5 6 7 8 9 I.0 I.1 I.2 H 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 01 I I 12 G 0.3										А
S	63741-X03 SEE NOTE 16 LEAD FREE OPTION											
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ent is the I.A.L and P the informi any be used ithout the C1.	 * R	EAR PLUG-UP PART NUMBER	T		5		linear angles	0. X ±0. 3 0. XX ±0. 13 . XXX ±.051 0° ±2°		^{title} VERTICAL SIO P.F. 96 POS.	GNAL HDR 8 ROW SELECT LOAD EXT.	-
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PRODUCT NUMBER		1
SEE SHEET I		1
NOTES: I. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.	(9.) THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.	
2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."	(10) THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION	1
3. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."	SPECIFICATION GS-20-010.	I
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME YI4.5M, 1994	II. CURRENT RATING : I AMP PER PIN I2. TEMPERATURE RANGE : -55°C TO +105°C	1
(5) 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	I3. P/N 6374I-XYYLF LEAD FREE (OPTIONAL) SELECT LOAD PATTERN PLATING CODE	
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.	(14) 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.	
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	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.	А
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	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.	
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 I.6mm.	 FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 6374I-XYYLF PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN 	
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SEE NOTE : Itr ecn no. dr	date 0.X ±0.3 COPY Www.fciconnect.com	1
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	$\frac{drigies}{dr} = 0 \pm 2$ $\frac{dr}{E} \cdot \frac{KROPER}{2001-01-15} \qquad MM \qquad product family \qquad METRAL 2000 code$	1
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