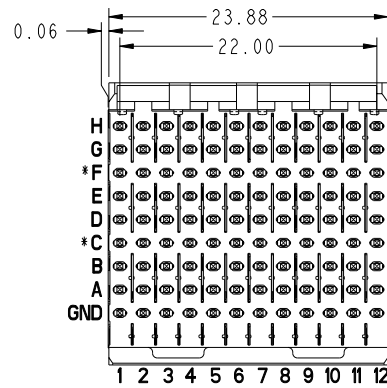
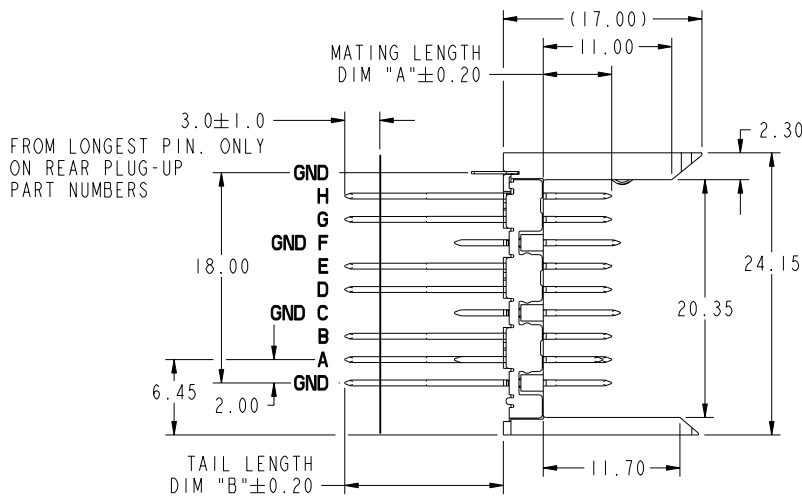
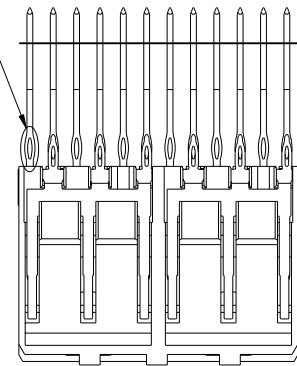


PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	APPLICATION
63741-1YY	TELCORDIA CO	STANDARD
63741-1YYLF		LEAD FREE
63741-5YY	TELCORDIA UE	STANDARD
63741-5YYLF		LEAD FREE



DETAIL A
SCALE 4:1
SEE NOTE 17



mat'l code				SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCJ	
litr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY		www.fcjconnect.com		
P	V06-0498	DCH	2006-05-30		0.XX ±0.13		COPY		title		
R	V07-0181	DCH	2007-04-20		.XXX ±.051		COPY		VERTICAL SIGNAL HDR 8 ROW		
S	V08-0010	HTB	2008-01-07	angles	0° ±2°		COPY		P.F. 96 POS. SELECT LOAD EXT.		
T	V08-0023	LP	2008-1-23	dr	E. KROPER. 2001-01-15		COPY		product family		code
-	-	-	-	engr	J. VOLSTORF 2001-01-15		COPY		METRAL 2000		213
M	V03-1156	TAB	2003-10-31	chr	J. VOLSTORF 2001-01-15		COPY		size		sheet
N	V05-0814	VS	2005-09-21	oppd	J. VOLSTORF 2001-01-15		COPY		dwg no		1 of 6
sheet index	revision sheet	T	T	T	T	T	T	T	scale		
		1	2	3	4	5	6	1:1		63741	

*ROW C AND F INFORMATION
ODD NUMBER COLUMNS WITHIN ROW C & F ARE COMMONED TO GROUND INTERNALLY WITHIN THE HOUSING. THE EVEN NUMBER COLUMNS WITHIN ROW C & F ARE NOT. FOR MAXIMUM PERFORMANCE IT IS RECOMMENDED THESE EVEN COLUMNS BE GROUND COMMONED WITHIN PCB. SEE NOTE 14

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REV E - 2006-04-18

Pro/E

PDM: Rev:T

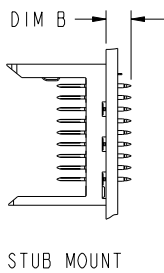
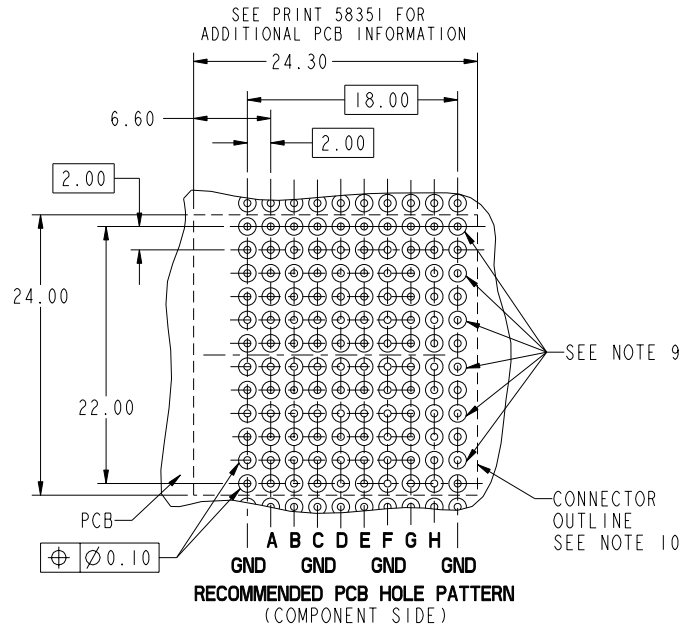
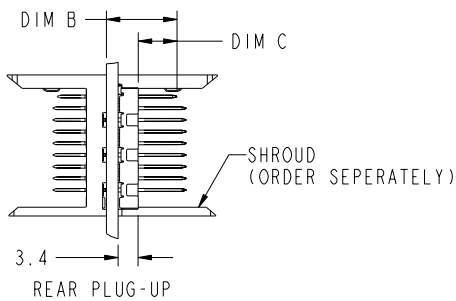
STATUS: Released

Printed: Dec 17, 2009

cage code 22526

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	Ø 0.65-0.80
DRILLED HOLE	Ø 0.81-0.86 (Ø 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	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	projection	www.fcjconnect.com		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.
				angles	0.XX ± 0.13	MM	product family METRAL 2000		
				dr	.XXX ± .051	scale	size	dwg no	code
				engr	0° ± 2°	1:1	A	63741	213
				chr					sheet
				appd					2
sheet index	revision sheet								



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REV E - 2004-04-18

1 | 2

3 |

4

1 | 2

3 |

4

Pro/E

cage code 22526

PDM: Rev:T STATUS:Released Printed: Dec 17, 2009



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PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 74981 SERIES METRAL 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
01*		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	5.00	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*		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	5.75	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*		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	6.50	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

* 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		CUSTOMER		FCJ www.fcjconnect.com	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	projection	COPY
T				angles	0.XX ± 0.13		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.
					.XXX ± .051		
				dr	0° ± 2°		product family METRAL 2000 size dwg no 63741 code 213 sheet 3
				eng	E. KROPER. 2001-01-15		
				ctr	J. VOLSTORF 2001-01-15	scale 1:1 A	cage code 22526 4
				appd	J. VOLSTORF 2001-01-15		
sheet index	revision sheet						



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PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 74981 SERIES METRAL 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*	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
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

* 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		CUSTOMER		FCJ		www.fcjconnect.com	
lfr	ecm no.	dr	date	linear	0.X ±0.3	projection	COPY				
T				angles	0.XX ±0.13			title			
					.XXX ±.051			VERTICAL SIGNAL HDR 8 ROW			
				dr	0° ±2°	MM	product family	METRAL 2000		code	213
				engr	E. KROPER. 2001-01-15	scale	size	dwg no	63741	sheet	4
				chr	J. VOLSTORF 2001-01-15	1:1					
				oppd	J. VOLSTORF 2001-01-15						
sheet index	revision sheet										

REV E - 2004-04-18

PDM: Rev:T

STATUS: Released

Printed: Dec 17, 2009



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SELECT LOAD PATTERNS												
METRAL P/N	CONTACT CODE											
ROW	1	2	3	4	5	6	7	8	9	10	11	12
63741-X01 STUB MOUNT SEE NOTE 16 LEAD FREE OPTION	H	02	02	02	02	02	02	02	02	02	02	02
	G	02	02	02	02	02	02	02	02	02	02	02
	F	03	03	03	03	03	03	03	03	03	03	03
	E	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02
	C	03	03	03	03	03	03	03	03	03	03	03
	B	02	02	02	02	02	02	02	02	02	02	02
	A	01	02	02	02	02	02	02	02	02	02	02
	GND	02	02	02	02	02	02	02	02	02	02	02

METRAL P/N	CONTACT CODE											
ROW	1	2	3	4	5	6	7	8	9	10	11	12
63741-X02 *RPU SEE NOTE 16 LEAD FREE OPTION	H	49	49	49	49	49	49	49	49	49	49	49
	G	49	49	49	49	49	49	49	49	49	49	49
	F	41	41	41	41	41	41	41	41	41	41	41
	E	49	49	49	49	49	49	49	49	49	49	49
	D	49	49	49	49	49	49	49	49	49	49	49
	C	41	41	41	41	41	41	41	41	41	41	41
	B	49	49	49	49	49	49	49	49	49	49	49
	A	48	49	49	49	49	49	49	49	49	49	49
	GND	49	49	49	49	49	49	49	49	49	49	49

METRAL P/N	CONTACT CODE											
ROW	1	2	3	4	5	6	7	8	9	10	11	12
63741-X03 SEE NOTE 16 LEAD FREE OPTION	H	02	02	02	02	02	02	02	02	02	02	01
	G	03	03	03	03	03	03	03	03	03	03	03
	F	04	04	04	04	04	04	04	04	04	04	04
	E	02	02	02	02	02	02	02	02	02	02	02
	D	03	03	03	03	03	03	03	03	03	03	03
	C	04	04	04	04	04	04	04	04	04	04	04
	B	02	02	02	02	02	02	02	02	02	02	02
	A	03	03	03	03	03	03	03	03	03	03	03
	GND	02	02	02	02	02	02	02	02	02	02	02

METRAL P/N	CONTACT CODE											
ROW	1	2	3	4	5	6	7	8	9	10	11	12
63741-X04 SEE NOTE 16 LEAD FREE OPTION	H	02	02	02	02	02	02	02	02	02	02	02
	G	03	03	03	03	03	03	03	03	03	03	03
	F	04	04	04	04	04	04	04	04	04	04	04
	E	02	02	02	02	02	02	02	02	02	02	02
	D	03	03	03	03	03	03	03	03	03	03	03
	C	04	04	04	04	04	04	04	04	04	04	04
	B	02	02	02	02	02	02	02	02	02	02	02
	A	01	03	03	03	03	03	03	03	03	03	03
	GND	02	02	02	02	02	02	02	02	02	02	02

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 5.50 - 6.80

METRAL P/N	CONTACT CODE											
ROW	1	2	3	4	5	6	7	8	9	10	11	12
63741-X05 *RPU SEE NOTE 16 LEAD FREE OPTION	H	25	25	25	25	25	25	25	25	25	25	25
	G	24	24	24	24	24	24	24	24	24	24	24
	F	12	12	12	12	12	12	12	12	12	12	12
	E	25	25	25	25	25	25	25	25	25	25	25
	D	24	24	24	24	24	24	24	24	24	24	24
	C	12	12	12	12	12	12	12	12	12	12	12
	B	49	25	25	25	25	25	25	25	25	25	25
	A	48	24	24	24	24	24	24	24	24	24	24
	GND	49	49	49	49	49	49	49	49	49	49	49

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 5.70 - 7.20 FOR METRAL 1000 APPLICATIONS (RECEPTACLE) ADD 6.00 - 7.20 FOR METRAL 4000 APPLICATIONS.

METRAL P/N	CONTACT CODE											
ROW	1	2	3	4	5	6	7	8	9	10	11	12
63741-X06 *RPU SEE NOTE 16 LEAD FREE OPTION	H	49	49	49	49	49	49	49	49	49	49	49
	G	49	49	49	49	49	49	49	49	49	49	49
	F	41	41	41	41	41	41	41	41	41	41	41
	E	49	49	49	49	49	49	49	49	49	49	49
	D	49	49	49	49	49	49	49	49	49	49	49
	C	41	41	41	41	41	41	41	41	41	41	41
	B	49	49	49	49	49	49	49	49	49	49	49
	A	35	49	49	49	49	49	49	49	49	49	49
	GND	36	36	36	36	36	36	36	36	36	36	36

PCB THICKNESS RANGE FOR REAR PLUG UP APPLICATIONS: 4.75 - 6.45 FOR METRAL 1000 APPLICATIONS (RECEPTACLE) ADD 4.80 - 6.45 FOR METRAL 4000 APPLICATIONS.


*REAR PLUG-UP PART NUMBER

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecm no.	dr	date	linear	0.X ±0.3	projection	COPY	title	VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.		
				angles	.xxx ±.051			product family	METRAL 2000		code
				dr	E. KROPER. 2001-01-15			size	dwg no	213	sheet
				engr	J. VOLSTORF 2001-01-15	scale			63741	5	
				chr	J. VOLSTORF 2001-01-15	1:1					
				oppd	J. VOLSTORF 2001-01-15						
sheet index	revision sheet										

PRODUCT NUMBER
SEE SHEET 1

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 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 Y14.5M, 1994
- 5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHOR BRONZE
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
STRIPLINE SHIELD MATERIAL: PHOSPHOR BRONZE
- 6. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS AS 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-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.

- 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. P/N 63741-XYLF

 - LEAD FREE (OPTIONAL)
 - SELECT LOAD PATTERN
 - PLATING CODE
- 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. IF THE SURROUNDING PINS ARE USED FOR POWER, THEN EACH PIN CAN CARRY 1 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.
- 16. FOR LEAD FREE PART NUMBERS ADD 'LF' SUFFIX. EXAMPLE: 63741-XYLFF
- 17. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE



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mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecm no.	dr	date	linear	0.X ± 0.3	projection	COPY		
					0.XX ± 0.13		title VERTICAL SIGNAL HDR 8 ROW		
				angles	.XXX ± .051		P.F. 96 POS. SELECT LOAD EXT.		
				dr	0° ± 2°	MM	product family METRAL 2000		code
				eng	E. KROPER 2001-01-15	scale	size	dwg no	213
				chr	J. VOLSTORF 2001-01-15	1:1	A	63741	sheet
				appd	J. VOLSTORF 2001-01-15				6
sheet index	revision sheet								