

PRODUCT NUMBER

SEE SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CURCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.

2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994

3. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0. PIN MATERIAL: PHOSPHER BRONZE

4. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS THE PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn. PLATING ON ALL OTHER TAILS IS SnPb.

5. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.
DIM A : 5.0mm MIN, 8.0mm MAX FOR ROWS A-H
DIM C : 5.0mm MIN, 8.0mm MAX FOR ROWS A-H

6. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 1.6mm

7. USE SHROUD 98173-102 FOR REAR PLUG-UP APPLICATIONS.

8. 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.

9. CURRENT RATING : 1 AMP PER PIN

10. TEMPERATURE RANGE : -55°C TO +105°C

11. P/N 74771-X02ZZZLF



12. PRODUCTS WHERE THE PART NUMBERS ENDS IN A "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.

13. FOR LEAD FREE PART NUMBERS ADD "LF" SUFFIX. EXAMPLE 74771-X02ZZZLF.

14. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.

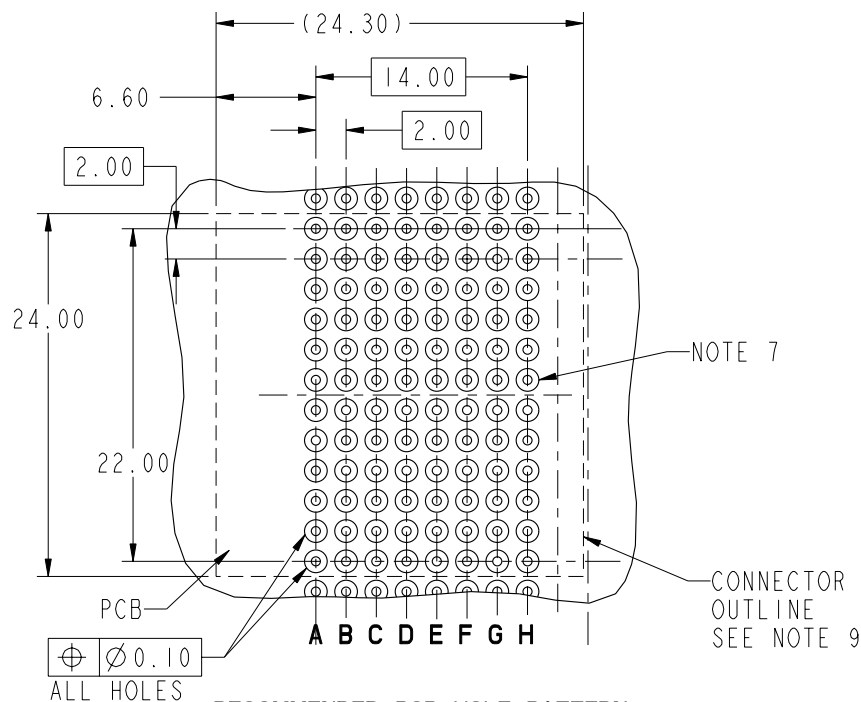
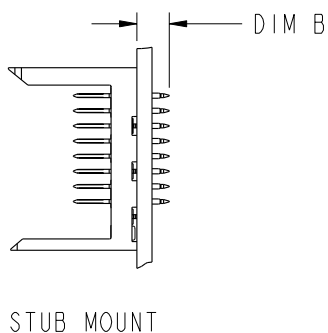
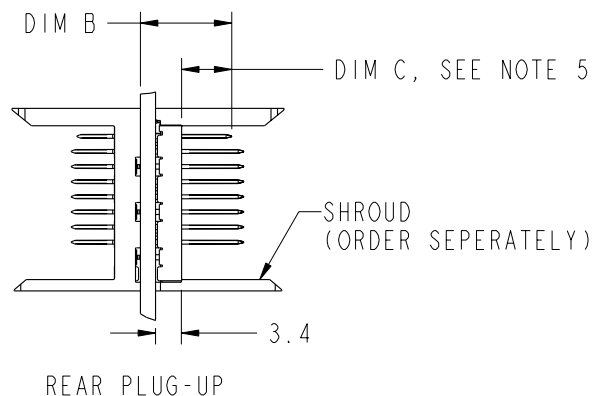
15. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

mat'l code SEE NOTE 3				tolerances unless otherwise specified			CUSTOMER		FCI www.fciconnect.com					
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SPECIAL LOAD STD.					
S					0.XX ±0.13		projection							
					.XXX ±.051									
				angles	0° ±2°				product family METRAL					
				dr	E. KROPER.	2001-01-15	scale 1:1		size		dwg no		code	
				enrg	J. VOLSTORF	2001-01-15			213					
				chr	J. VOLSTORF	2001-01-15			A		74771		sheet	
				appd	J. VOLSTORF	2001-01-15			2 of 5					
sheet index		revision sheet												



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



RECOMMENDED PCB HOLE PATTERN
(COMPONENT SIDE)
SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

mat'l code SEE NOTE 3				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ± 0.3	projection	COPY	title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SPECIAL LOAD STD.	product family METRAL
S					0.XX ± 0.13				
					.XXX ± .051				
				angles	0° ± 2°	MM scale 1:1	A	size 74771	code 213 sheet 3 of 5
				dr	E. KROPER. 2001-01-15				
				enr	J. VOLSTORF 2001-01-15				
				chr	J. VOLSTORF 2001-01-15				
				appd	J. VOLSTORF 2001-01-15				
sheet index	revision sheet								



PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH
			ALL ROWS
01*	5.00	4.30	1.60 MIN
54		11.55	1.60 - 3.15
22		12.20	1.60 - 3.80
30		12.95	1.60 - 4.55
05		13.70	2.30 - 5.30
35		14.45	3.05 - 6.05
48		15.20	3.80 - 6.80
40		15.70	4.30 - 7.30
65		16.40	5.00 - 8.00
09		17.10	5.70 - 8.70
02*	5.75	4.30	1.60 MIN
55		11.55	1.60 - 3.15
44		12.20	1.60 - 3.80
31		12.95	1.60 - 4.55
06		13.70	2.30 - 5.30
36		14.45	3.05 - 6.05
49		15.20	3.80 - 6.80
25		15.70	4.30 - 7.30
66		16.40	5.00 - 8.00
10		17.10	5.70 - 8.70
03*	6.50	4.30	1.60 MIN
56		11.55	1.60 - 3.15
45		12.20	1.60 - 3.80
32		12.95	1.60 - 4.55
07		13.70	2.30 - 5.30
37		14.45	3.05 - 6.05
50		15.20	3.80 - 6.80
41		15.70	4.30 - 7.30
24		16.40	5.00 - 8.00
11		17.10	5.70 - 8.70

PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH
			ALL ROWS
04*	7.25	4.30	1.60 MIN
57		11.55	1.60 - 3.15
46		12.20	1.60 - 3.80
33		12.95	1.60 - 4.55
08		13.70	2.30 - 5.30
38		14.45	3.05 - 6.05
51		15.20	3.80 - 6.80
42		15.70	4.30 - 7.30
67		16.40	5.00 - 8.00
12		17.10	5.70 - 8.70
19*	8.00	4.30	1.60 MIN
58		11.55	1.60 - 3.15
47		12.20	1.60 - 3.80
34		12.95	1.60 - 4.55
20		13.70	2.30 - 5.30
39		14.45	3.05 - 6.05
52		15.20	3.80 - 6.80
43		15.70	4.30 - 7.30
68		16.40	5.00 - 8.00
21		17.10	5.70 - 8.70

mat'l code SEE NOTE 3				tolerances unless otherwise specified			CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ± 0.3		COPY			
S					0.XX ± 0.13		projection			
					.XXX ± .051					
				angles	0° ± 2°				title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SPECIAL LOAD STD.	
				dr	E. KROPER.	2001-01-15	MM		product family METRAL	
				enrg	J. VOLSTORF	2001-01-15			code 213	
				chr	J. VOLSTORF	2001-01-15	1:1		sheet 4 of 5	
				appd	J. VOLSTORF	2001-01-15				
sheet index	revision sheet									



SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN #
74771-X02001 SEE NOTE 13 LEAD FREE OPTION	H	01
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02004 *RPU SEE NOTE 13 LEAD FREE OPTION	H	05
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02011 SEE NOTE 13 LEAD FREE OPTION	H	02
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02012 *RPU SEE NOTE 13 LEAD FREE OPTION	H	44
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-

CIRCUIT PCB
THICKNESS
RANGE
FOR REAR
PLUG-UP:
2.30 - 5.30

CIRCUIT PCB
THICKNESS
RANGE
FOR REAR
PLUG-UP:
1.60 - 3.80

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN #
74771-X02018 *RPU SEE NOTE 13 LEAD FREE OPTION	H	10
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02021 SEE NOTE 13 LEAD FREE OPTION	H	03
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02023 *RPU SEE NOTE 13 LEAD FREE OPTION	H	32
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02031 SEE NOTE 13 LEAD FREE OPTION	H	04
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-

CIRCUIT PCB
THICKNESS
RANGE
FOR REAR
PLUG-UP:
5.70 - 8.70

CIRCUIT PCB
THICKNESS
RANGE
FOR REAR
PLUG-UP:
1.60 - 4.55

SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN #
74771-X02041 SEE NOTE 13 LEAD FREE OPTION	H	19
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-
74771-X02042 *RPU SEE NOTE 13 LEAD FREE OPTION	H	06
	G	
	F	
	E	
	D	
	C	
	B	
	A	
	GND	-

CIRCUIT PCB
THICKNESS
RANGE
FOR REAR
PLUG-UP:
2.30 - 5.30

* REAR PLUG-UP PART NUMBER

mat'l code SEE NOTE 3				tolerances unless otherwise specified				CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3			COPY		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SPECIAL LOAD STD.	
S					0.XX ±0.13			projection			
					.XXX ±.051						
				angles	0° ±2°						
					dr	E. KROPER.	2001-01-15			product family	
				enrg	J. VOLSTORF	2001-01-15	METRAL			213	
				chr	J. VOLSTORF	2001-01-15	size			sheet	
				appd	J. VOLSTORF	2001-01-15	dwg no			5 of 5	
sheet index		revision sheet						scale		A	
								1:1			

Mouser Electronics

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