



PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH
			ROWS A,B,C,D,E,F,G, & H
01*	5.00	4.30	1.60 MIN
22		12.20	2.95 - 3.80
30		12.95	2.95 - 4.55
05		13.70	2.95 - 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
44		12.20	2.95 - 3.80
31		12.95	2.95 - 4.55
06		13.70	2.95 - 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
45		12.20	2.95 - 3.80
32		12.95	2.95 - 4.55
07		13.70	2.95 - 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

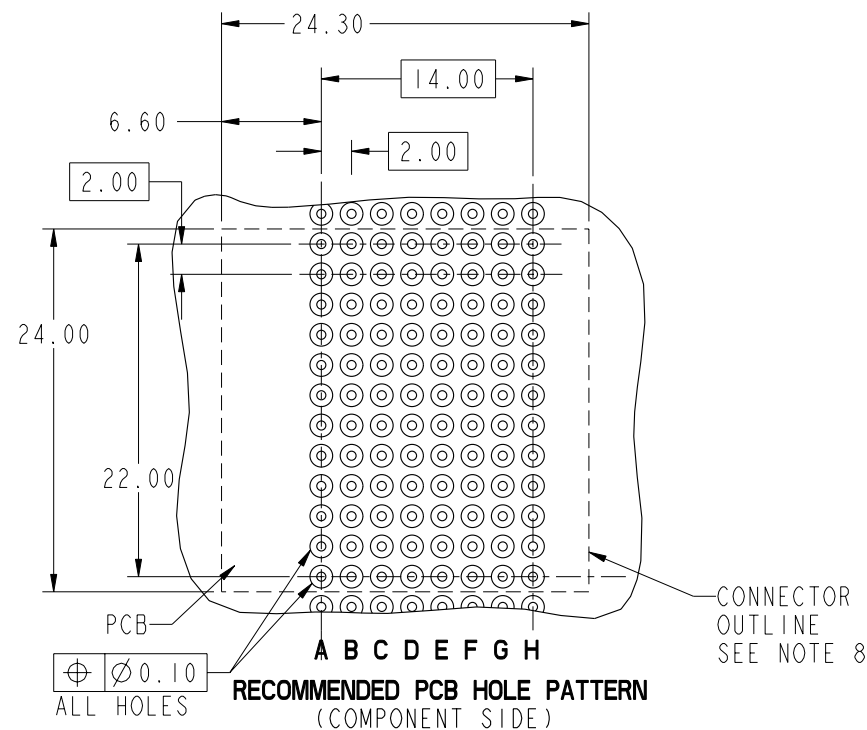
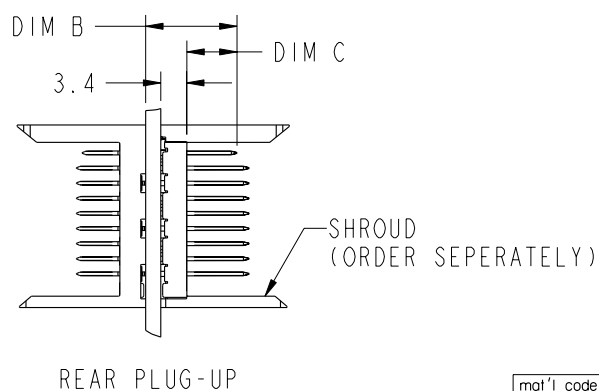
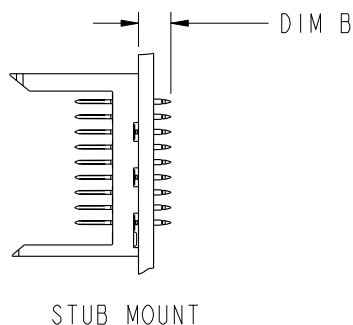
* STUB PINS - NO REAR PLUG-UP

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			
W					0.XX ±0.13		projection			
					.XXX ±.051					
				angles	0° ±2°				title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.	
				dr	E. KROPER.	2001-01-15	MM		product family METRAL	
				enrg	J. VOLSTORF	2001-01-15	←→		code 213	
				chr	J. VOLSTORF	2001-01-15	scale 1:1		sheet 2	
				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 LENGTH
			ROWS A,B,C,D,E,F,G & H
04*	7.25	4.30	1.60 MIN
46		12.20	2.95 - 3.80
33		12.95	2.95 - 4.55
08		13.70	2.95 - 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
47		12.20	2.95 - 3.80
34		12.95	2.95 - 4.55
20		13.70	2.95 - 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

PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	$\varnothing 0.65-0.80$
DRILLED HOLE	$\varnothing 0.81-0.86$ ($\varnothing 0.85$ DRILL)
COPPER PLATING	0.025 MIN
SnPb PLATING	0.005-0.015



SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

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	projection		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT	
W					0.XX ± 0.13				
					.XXX $\pm .051$				
				angles	0° $\pm 2^\circ$				
		dr			E. KROPER. 2001-01-15	MM  scale 1:1	product family METRAL	code 213	sheet 3
		enrg			J. VOLSTORF 2001-01-15				
		chr			J. VOLSTORF 2001-01-15				
		appd			J. VOLSTORF 2001-01-15				
sheet index	revision sheet								

Pro/E

3

cage code
22526

4

PDM: Rev:W

STATUS: Released

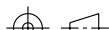
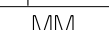
Printed: Dec 16, 2008

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METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
98030-X013 SEE NOTE 13 LEAD FREE OPTION	H	02	02	02	02	02	02	02	02	02	02	02	02
	G	02	02	02	02	02	02	02	02	02	02	02	02
	F	04	04	02	02	02	02	02	02	02	02	02	02
	E	02	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02	02
	C	02	02	02	02	02	02	02	02	02	02	02	02
	B	02	02	02	02	02	02	02	02	02	02	02	02
	A	02	02	02	02	02	02	02	02	02	02	02	02
	GND	-	-	-	-	-	-	-	-	-	-	-	-
METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
98030-X014 SEE NOTE 13 LEAD FREE OPTION	H	02	02	02	02	02	02	02	02	02	02	02	02
	G	02	02	02	02	02	02	02	02	02	02	02	02
	F	04	04	02	02	02	02	01	02	02	02	02	02
	E	02	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02	02
	C	02	02	02	02	02	02	02	02	02	02	02	02
	B	02	02	02	02	02	02	02	02	02	02	02	02
	A	02	02	02	02	02	02	02	02	02	02	02	02
	GND	-	-	-	-	-	-	-	-	-	-	-	-
METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
98030-X015 * SEE NOTE 13 LEAD FREE OPTION	H	-	55	-	55	-	55	-	55	-	55	-	55
	G	55	-	55	-	55	-	55	-	55	-	55	-
	F	-	55	-	55	-	55	-	55	-	55	-	55
	E	55	-	55	-	55	-	55	-	55	-	55	-
	D	-	55	-	55	-	55	-	55	-	55	-	55
	C	55	-	55	-	55	-	55	-	55	-	55	-
	B	-	55	-	55	-	55	-	55	-	55	-	55
	A	55	-	55	-	55	-	55	-	55	-	55	-
	GND	-	-	-	-	-	-	-	-	-	-	-	-
METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
98030-X016 * SEE NOTE 13 LEAD FREE OPTION	H	55	55	55	55	55	55	55	55	55	55	55	55
	G	55	55	55	55	55	55	55	55	55	55	55	55
	F	57	57	55	55	55	55	55	55	55	55	55	55
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	D	55	55	55	55	55	55	55	55	55	55	55	55
	C	55	55	55	55	55	55	55	55	55	55	55	55
	B	55	55	55	55	55	55	55	55	55	55	55	55
	A	55	55	55	55	55	55	55	55	55	55	55	55
	GND	-	-	-	-	-	-	-	-	-	-	-	-

*REAR PLUG-UP PART NUMBER

mat'l code SEE NOTE 3				tolerances unless otherwise specified			CUSTOMER		 www.fciconnect.com					
ltr	ecn no.	dr	date	linear	0.X ±0.3			COPY		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.				
W					0.XX ±0.13			projection						
					.XXX ±.051									
				angles	0° ±2°					product family METRAL				
				dr	E. KROPER.	2001-01-15	scale 1:1		size A	dwg no 98030		code 213		
				enrg	J. VOLSTORF	2001-01-15						sheet 5		
				chr	J. VOLSTORF	2001-01-15								
				appd	J. VOLSTORF	2001-01-15								
sheet index	revision sheet													

cage code 22526

Pro/E

PDM: Rev:W

STATUS:Released

Printed: Dec 16, 2008

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. 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: PHOSPHOR BRONZE

4. PLATING ON CONTACT AREAS PER 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 98030-XXXXLF



12. PRODUCTS WHERE THE PART NUMBERS ENDS IN "LF" MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

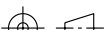
ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260° C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

13. FOR LEAD FREE PART NUMBERS ADD "LF" SUFFIX. EXAMPLE: 98030-XXXXLF

14. 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 3				tolerances unless otherwise specified			CUSTOMER		 www.fciconnect.com					
ltr	ecn no.	dr	date	linear	0. X ± 0.3			COPY		title VERTICAL SIGNAL HDR 8 ROW P.F. 96 POS. SELECT LOAD EXT.				
W					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		98030		sheet	
				appd	J. VOLSTORF	2001-01-15			6					
sheet index	revision sheet													