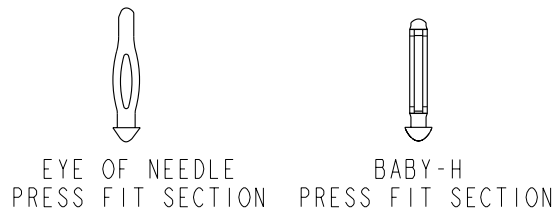
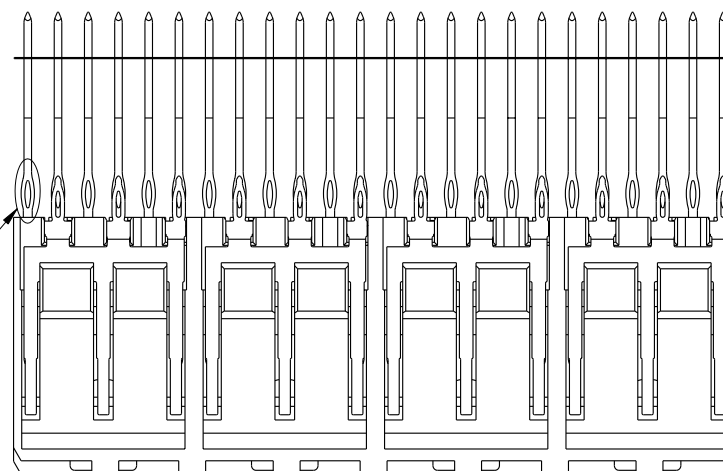




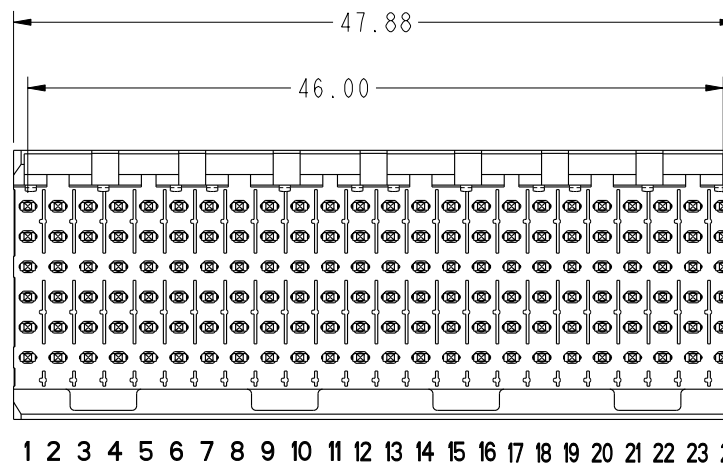
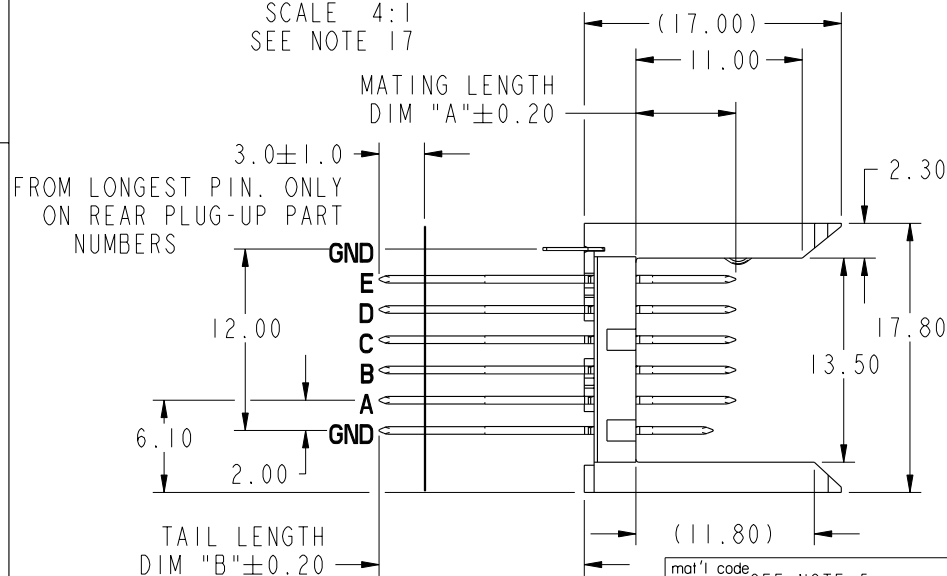
PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	FOR REAR PLUG-UP APPLICATIONS USE SHROUD
63779-1ZZZ	TELCORDIA CO	84818-104
63779-1ZZZLF	TELCORDIA CO	84818-104LF
63779-5ZZZ	TELCORDIA UE	84818-504
63779-5ZZZLF	TELCORDIA UE	84818-504LF

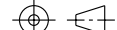


SEE DETAIL A



DETAIL A
SCALE 4:1
SEE NOTE 17



mat'l code SEE NOTE 5				tolerances unless otherwise specified				CUSTOMER		 www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ±0.3				COPY			title VERTICAL SIGNAL HDR 5 ROW P.F. 120 POS. SELECT LOAD STD
M	V06-0498	DCH	2006-05-31		0.XX ±0.13				projection			
N	V07-0172	DCH	2007-03-29		.XXX ±.051							
P	V08-0003	HTB	2008-01-03	angles	0° ±2°							
R	V08-0016	HTB	2008-01-14	dr	E. KROPER.	2001-09-24		 MM scale 1:1	product family METRAL 1000		code	
S	V08-0051	LP	2008-02-18	enrg	J. VOLSTORF	2001-09-24			size	dwg no	213	
T	V08-0141	LP	2008-03-28	chr	J. VOLSTORF	2001-09-24			63779		sheet	
-	-	-	-	appd	J. VOLSTORF	2001-09-24				1 of 7		
sheet index		revision sheet		T	T	T	T	T	T			
				1	2	3	4	5	6	7		

Pro/E

cage code 22526

PDM: Rev:T

STATUS: Released

Printed: Dec 16, 2008



PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW **
01*	5.00	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		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*	5.75	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		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*	6.50	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		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 THAN THE OTHER PINS.

mat'l code SEE NOTE 5				tolerances unless otherwise specified			CUSTOMER		www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ±0.3			COPY			
T					0.XX ±0.13			projection			
					.XXX ±.051						
				angles	0° ±2°					product family METRAL 1000 code 213 size dwg no 63779 sheet 2	
				dr	E. KROPER.	2001-09-24	scale 1:1				
				engr	J. VOLSTROF	2001-09-24					
				chr	J. VOLSTORF	2001-09-24			A		
				appd	J. VOLSTORF	2001-09-24					
sheet index	revision sheet										



PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	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	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

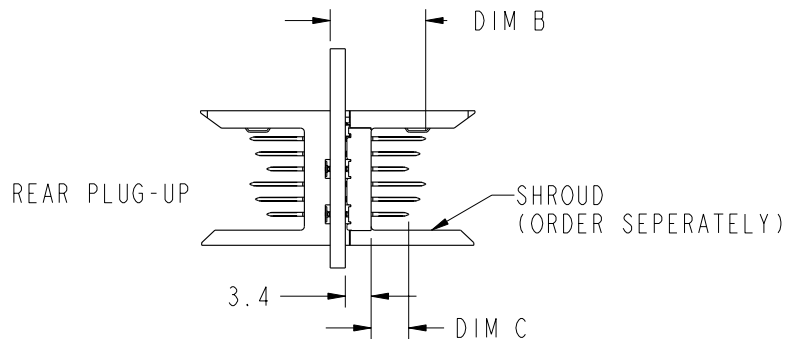
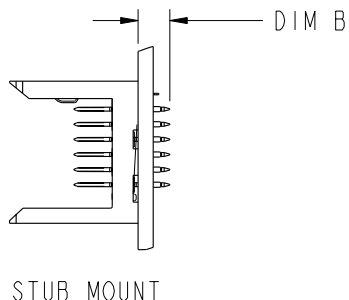
* STUB PINS - NO REAR PLUG-UP
** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF
PIN 'GND' IS ONE SIZE SHORTER THAN THE OTHER PINS.

mat'l code SEE NOTE 5				tolerances unless otherwise specified			CUSTOMER		FCI www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY			
T					0.XX ±0.13		projection			
					.XXX ±.051					
				angles	0° ±2°				title VERTICAL SIGNAL HDR 5 ROW P.F. 120 POS. SELECT LOAD STD	
				dr	E. KROPER.	2001-09-24	MM		product family METRAL 1000	
				enrg	J. VOLSTROF	2001-09-24			code 213	
				chr	J. VOLSTORF	2001-09-24	1:1		sheet 3	
				appd	J. VOLSTORF	2001-09-24			size A	
sheet index	revision sheet								cage code 22526	

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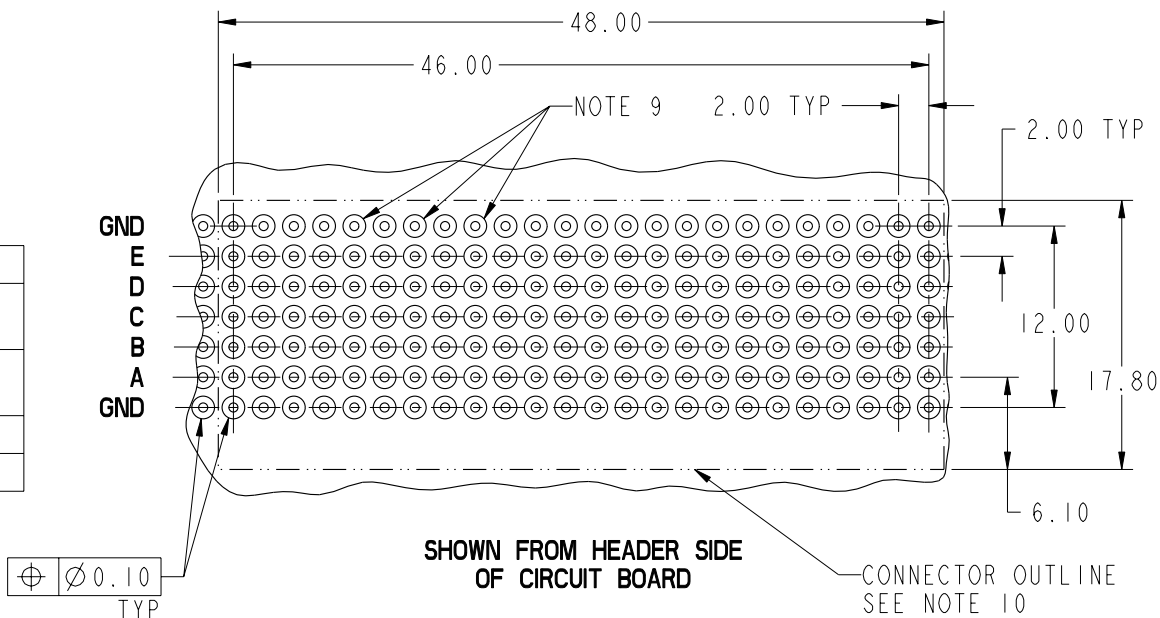


PRODUCT NUMBER
 SEE SHEET 1



PRESS-FIT HOLES	OPTION 1
HOLE DIAMETER AFTER PLATING	0.65-0.80
DRILLED HOLE	0.81-0.86 (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 5				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 5 ROW P.F. 120 POS. SELECT LOAD STD			
T					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°	MM 1:1	scale	product family		METRAL 1000	code
				dr	E. KROPER. 2001-09-24			size	dwg no	A	213
				enrg	J. VOLSTORF 2001-09-24						
				chr	J. VOLSTORF 2001-09-24						
				appd	J. VOLSTORF 2001-09-24						
sheet index	revision sheet										

cage code
 22526

Pro/E

3

4

PDM: Rev:T

STATUS: Released

Printed: Dec 16, 2008

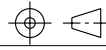


SELECT LOAD PATTERNS																									
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X001 SEE NOTE 16 LEAD FREE OPTION	E	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	D	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	C	03	02	02	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	02	02	03	
	B	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	A	03	02	02	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	02	02	03	
	GND	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X002 SEE NOTE 14 *RPU** SEE NOTE 16 LEAD FREE OPTION	E	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	D	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	C	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	B	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	A	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
	GND	55	02	02	02	02	55	55	55	02	02	02	02	55	55	55	55	55	55	02	02	02	02	55	55
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X003 SEE NOTE 14 *RPU** SEE NOTE 16 LEAD FREE OPTION	E	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	D	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	C	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	B	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	A	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55
	GND	55	55	02	02	02	02	55	55	55	55	55	55	55	55	55	55	55	55	55	02	02	02	02	55

** NOT A POSSIBLE METRAL
1000 OR 4000 REAR PLUG-UP
PART NUMBER,
SPECIAL APPLICATION.

** NOT A POSSIBLE METRAL
1000 OR 4000 REAR PLUG-UP
PART NUMBER,
SPECIAL APPLICATION.

*REAR PLUG-UP PART NUMBER

mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0. X ±0.3		projection 	title VERTICAL SIGNAL HDR 5 ROW P.F. 120 POS. SELECT LOAD STD	
T					0. XX ±0.13				
					. XXX ±.051				
				angles	0° ±2°		MM 	product family METRAL 1000	
				dr	E. KROPER.	2001-09-24			
				enrg	J. VOLSTROF	2001-09-24			
				chr	J. VOLSTROF	2001-09-24	scale 1:1	size A	
				appd	J. VOLSTROF	2001-09-24			
sheet index	revision sheet							code 213 sheet 5	

cage code 22526



1 | 2

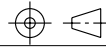
3 |

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SELECT LOAD PATTERNS

PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X004 SEE NOTE 16 LEAD FREE OPTION	E	02	02	02	02	02	02	02	02	02	02	02	02	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	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	02	02	02	02	02	02	02	02	02	04	04	04
	B	02	02	02	02	02	02	02	02	02	02	02	02	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	02	02	02	02	02	02	02	02	02	02	02	02
	GND	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X005 SEE NOTE 16 LEAD FREE OPTION	E	02	02	02	02	02	02	02	02	02	02	02	02	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	02	02	02	02	02	02	02	02	02	02	02	02
	C	04	02	02	02	02	02	04	02	02	02	02	02	01	02	02	02	02	04	02	02	02	02	02	02
	B	02	02	02	02	02	02	02	02	02	02	02	02	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	02	02	02	02	02	02	02	02	02	02	02	02
	GND	-	02	02	02	02	-	-	02	02	02	02	-	-	02	02	02	02	-	-	02	02	02	02	-
PRODUCT #	ROW	COLUMN																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
63779-X006 *RPU SEE NOTE 16 LEAD FREE OPTION	E	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	01	01	01	01
	D	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	01	01	01	01
	C	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	01	01	01	01
	B	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	A	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
	GND	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

*REAR PLUG-UP PART NUMBER

mat'l code SEE NOTE 5				tolerances unless otherwise specified			CUSTOMER		 www.fciconnect.com		
ltr	ecn no.	dr	date	linear	0.X ±0.3			projection 	title VERTICAL SIGNAL HDR 5 ROW P.F. 120 POS. SELECT LOAD STD		
T					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°			MM 	product family METRAL 1000 code 213 size dwg no 63779 sheet 6		
				dr	E. KROPER.	2001-09-24					
				enrg	J. VOLSTROF	2001-09-24					
				chr	J. VOLSTORF	2001-09-24	scale 1:1	A			
				appd	J. VOLSTORF	2001-09-24					
sheet index	revision sheet										

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Pro/E

3 |

cage code 22526

4

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 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 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
6. PLATING ON CONTACT TO MEET PERFORMANCE LEVEL AS SPECIFIED 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-E
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-E
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
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
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
DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
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 COMPLIANT 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 63779-XZZZLF

14. PIN CODE 55 CANNOT BE USED WITH METRAL 1000 SHROUDS. PIN CODE 55 HAS A DIM A=5.75mm, DIM B=11.55mm.
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: 63779-XXXXLF
17. 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		CUSTOMER		 www.fciconnect.com							
ltr	ecn no.	dr	date	linear	0. X ±0.3		COPY		title VERTICAL SIGNAL HDR 5 ROW P.F. 120 POS. SELECT LOAD STD						
T					0. XX ±0.13		projection								
					.XXX ±.051										
				angles	0° ±2°				product family METRAL 1000						
				dr	E. KROPER.	2001-09-24									
				enrg	J. VOLSTORF	2001-09-24									
				chr	J. VOLSTORF	2001-09-24									
				appd	J. VOLSTORF	2001-09-24									
sheet index		revision sheet						scale 1:1		size A		dwg no 63779		code 213	
														sheet 7	

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