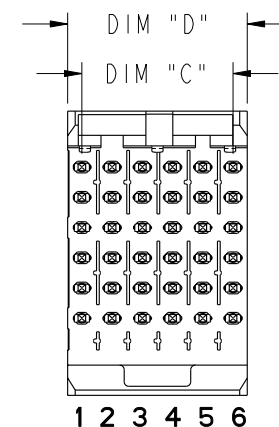
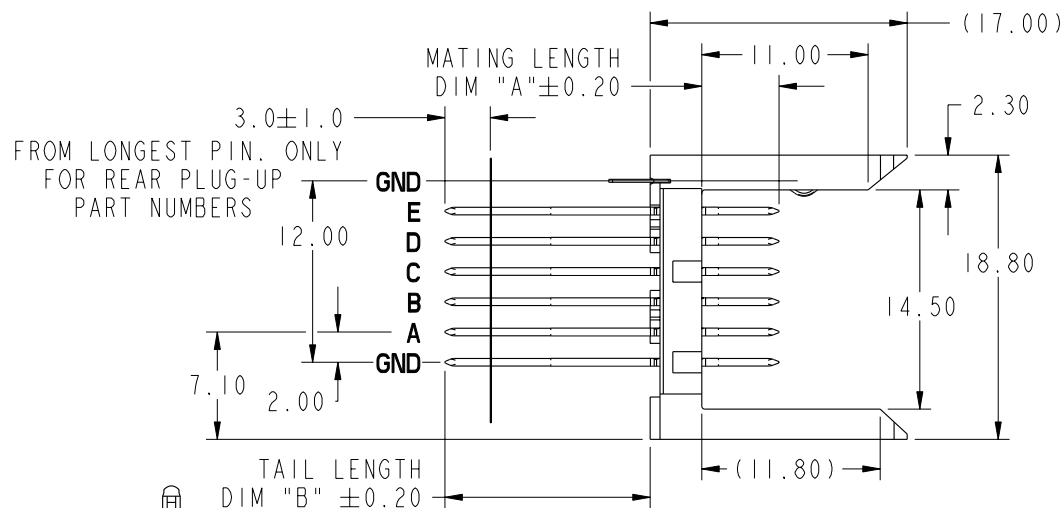
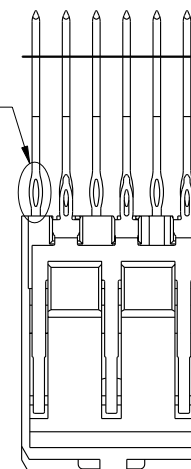




PRODUCT NUMBER	MATING CONTACT AREA PLATING PERFORMANCE	SHROUD TO USE FOR REAR-PLUG- UP APPLICATIONS	CONNECTOR SIZE	PIN FIELD DIM C	LENGTH DIM D	PRESS FIT TAIL PLATING
84881-101ZZZ	TELCORDIA CO	84818-101	1 MOD	10.00	11.88	STANDARD
84881-101ZZZLF		84818-101LF				LEAD FREE
84881-102ZZZ		84818-102	2 MOD	22.00	23.88	STANDARD
84881-102ZZZLF		84818-102LF				LEAD FREE
84881-103ZZZ		84818-103	3 MOD	34.00	35.88	STANDARD
84881-103ZZZLF		84818-103LF				LEAD FREE
84881-104ZZZ	TELCORDIA UE	84818-104	4 MOD	46.00	47.88	STANDARD
84881-104ZZZLF		84818-104LF				LEAD FREE
84881-501ZZZ		84818-101	1 MOD	10.00	11.88	STANDARD
84881-501ZZZLF		84818-101LF				LEAD FREE
84881-502ZZZ		84818-102	2 MOD	22.00	23.88	STANDARD
84881-502ZZZLF		84818-102LF				LEAD FREE
84881-503ZZZ		84818-103	3 MOD	34.00	35.88	STANDARD
84881-503ZZZLF		84818-103LF				LEAD FREE
84881-504ZZZ		84818-104	4 MOD	46.00	47.88	STANDARD
84881-504ZZZLF		84818-104LF				LEAD FREE

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	ecr no.	dr	date	linear	0.X ±0.3				COPY			title	VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.			
M	V06-0569	DCH	2006-06-12		0.XX ±0.13				projection							
N	V07-0179	DCH	2007-04-18		.XXX ±.051											
P	V08-0029	HTB	2008-01-21	angles	0° ±2°											
R	V08-0131	LP	2008-03-24		dr	E. KROPER.	2001-01-23			product family						
-	-	-	-		J. VOLSTORF	2001-01-23			size	dwg no	213					
K	V04-0399	DAI	2004-05-24	enrg	J. VOLSTORF	2001-01-23			scale	A		84881		sheet		
L	V05-0806	VS	2005-09-22	appd	J. VOLSTORF	2001-01-23			1:1					1 of 6		
sheet index		revision sheet		R	R	R	R	R	R	R	R	R	R	R		
				1	2	3	4	5	6							

Pro/E

cage code 22526

PDM: Rev:R

STATUS: Released

Printed: May 13, 2011



PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 84854 METRAL 1000 SERIES RECEPTACLE		WHEN MATING TO A 52062 METRAL 4000 SERIES 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 THEN 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	projection	COPY	title	VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.				
R					0.XX ±0.13								
					.XXX ±.051								
				angles	0° ±2°	 MM 1:1	product family	METRAL 1000	code				
				dr	E. KROPER.					2001-01-23	size	dwg no	213
				engr	J. VOLSTORF					2001-01-23			
				chr	J. VOLSTORF	2001-01-23							
				appd	J. VOLSTORF	2001-01-23							
sheet	revision												
index	sheet												



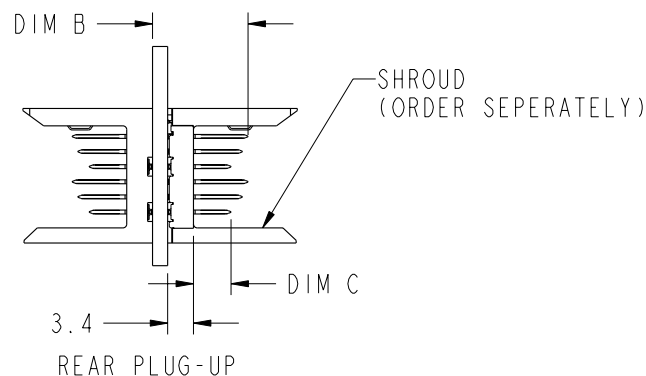
PIN NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 84854 METRAL 1000 SERIES RECEPTACLE		WHEN MATING TO A 52062 METRAL 4000 SERIES RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
04*	7.25	4.30	1.60 MIN	1.60 MIN	1.60 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 THEN THE OTHER PINS.

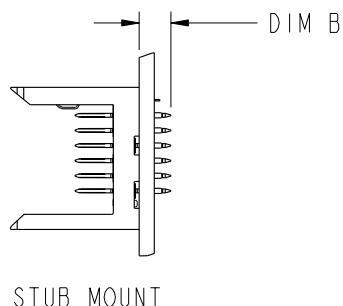
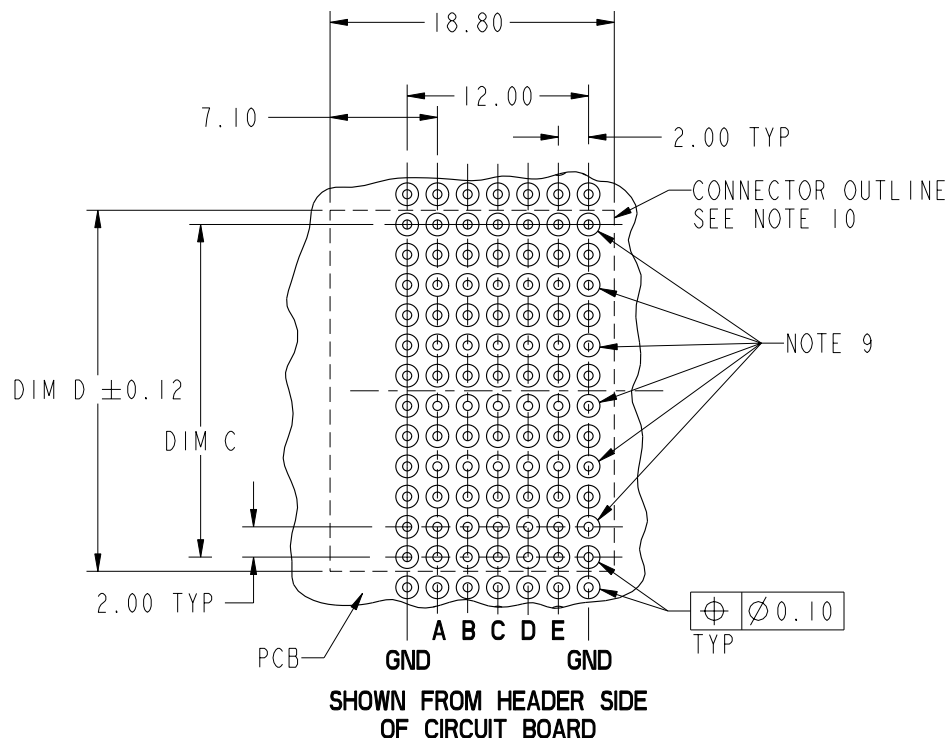
mat'l code SEE NOTE 5				tolerances unless otherwise specified			CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3			projection 	title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.	
R					0.XX ±0.13					
					.XXX ±.051					
				angles	0° ±2°			MM scale 1:1	product family METRAL 1000	
				dr	E. KROPER.	2001-01-23	code		213	
				enrg	J. VOLSTORF	2001-01-23	size		dwg no	
				chr	J. VOLSTORF	2001-01-23	A		84881	
				appd	J. VOLSTORF	2001-01-23			sheet 3	
sheet index		revision sheet							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



SEE PRINT 58351 FOR ADDITIONAL
PCB INFORMATION.



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 	COPY	title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.				
R					0.XX ± 0.13							
					.XXX $\pm .051$							
				angles	0° $\pm 2^\circ$	 MM scale 1:1		product family METRAL 1000	code		213 sheet 4	
				dr	E. KROPER. 2001-01-23				size A	dwg no 84881		
				enrg	J. VOLSTORF 2001-01-23							
				chr	J. VOLSTORF 2001-01-23							
				appd	J. VOLSTORF 2001-01-23							
sheet index	revision sheet											

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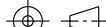
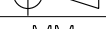


SPECIAL LOAD PATTERNS		
PRODUCT #	ROW	PIN CODES
84881-XY001 SEE NOTE 16 LEAD FREE OPTION	E	01
	D	
	C	
	B	
	A	
	GND	
84881-XY011 SEE NOTE 16 LEAD FREE OPTION	E	02
	D	
	C	
	B	
	A	
	GND	01
84881-XY021 SEE NOTE 16 LEAD FREE OPTION	E	03
	D	
	C	
	B	
	A	
	GND	01
84881-XY050 *RPU ** SEE NOTE 16 LEAD FREE OPTION	E	19
	D	
	C	
	B	
	A	
	GND	02

PCB THICKNESS
RANGE FOR REAR
PLUG-UP
APPLICATIONS:
2.95 TO 3.80

* REAR PLUG-UP PART NUMBERS

** CANNOT BE MATED WITH
METRAL 4000 RECEPTACLE.

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		title VERTICAL SIGNAL HDR 5 ROW P.F. SPECIAL LOAD EXT.	
R					0. XX ±0. 13			projection			
					. XXX ±. 051						
				angles	0° ±2°						
				dr	E. KROPER.	2001-01-23		product family		code 213 sheet 5	
				enrg	J. VOLSTORF	2001-01-23		METRAL 1000			
				chr	J. VOLSTORF	2001-01-23		size			
				appd	J. VOLSTORF	2001-01-23		dwg no			
sheet		revision					scale		A		
index		sheet					1:1		84881		

cage code 22526

Pro/E

3

4

PDM: Rev:R

STATUS: Released

Printed: May 13, 2011

PRODUCT NUMBER

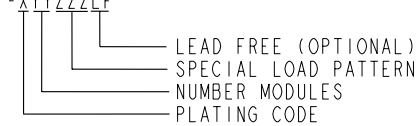
SEE SHEET 1

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 Y14.5M, 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
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-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 84881-XXXXZLF



14. P/N 84881-X01ZZZ SHOWN.
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: 84881-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. SPECIAL LOAD EXT.					
R					0.XX ±0.13		projection							
				angles	.XXX ±.051				product family METRAL 1000					
					0° ±2°									
				dr	E. KROPER.	2001-01-23			size		dwg no		code	
				enrg	J. VOLSTORF	2001-01-23			213					
				chr	J. VOLSTORF	2001-01-23	scale		A		84881		sheet	
				appd	J. VOLSTORF	2001-01-23	1:1						6	
sheet index		revision sheet												

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