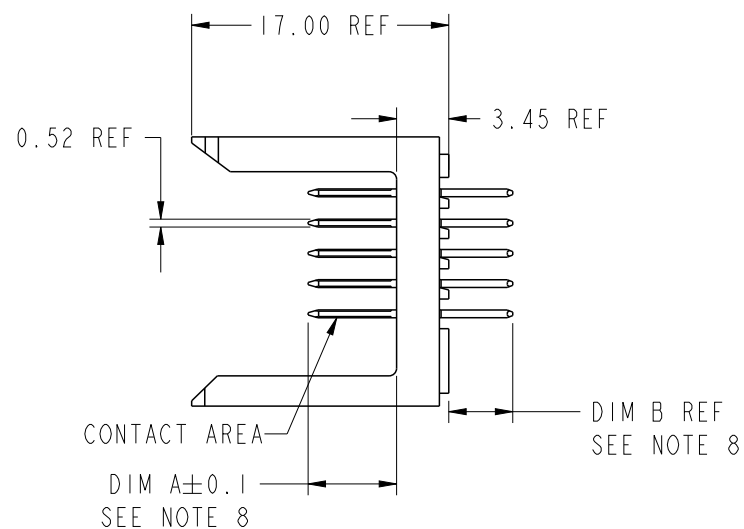
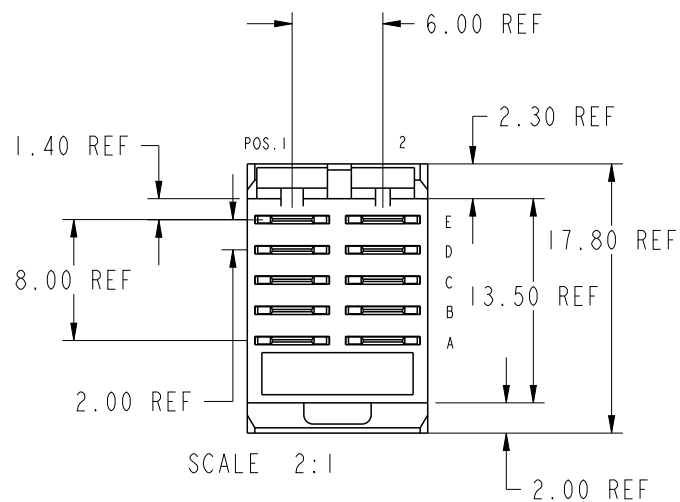
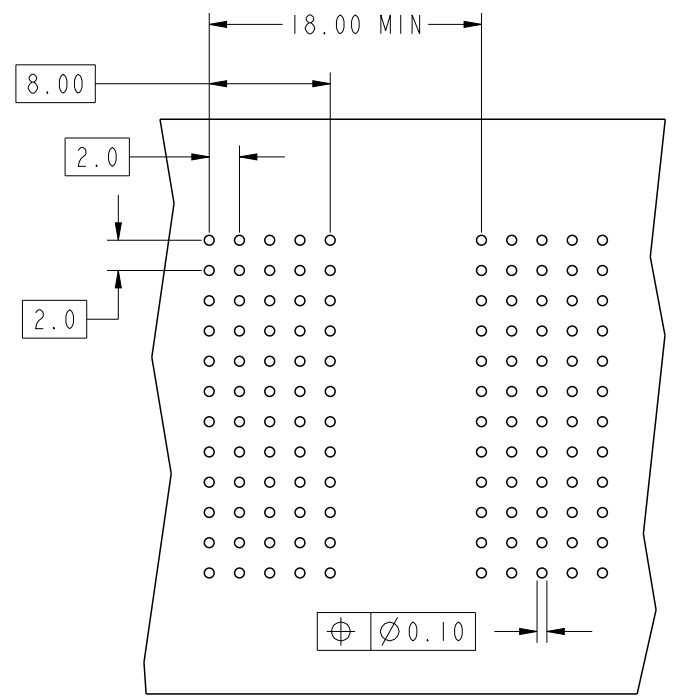
PLATING IN CONTACT AREA

DASH NUMBER	PERFORMANCE LEVEL	NOTES
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 9
-2YYLF	TELECOM CLASS	SEE NOTE 9
-5YYLF	TELCORDIA UE	SEE NOTE 9

spec ref *				dr Terran Huang 2010/07/08		projection 	mm 	size A4	scale 2:1
tolerance std ISO 406 ISO 1101				eng Andy Lu 2013/10/22				ecn no ELX-DG-16119-1	rel level Released
TOLERANCES UNLESS OTHERWISE SPECIFIED				chr Sun Richard 2013/10/24					
				appr Pei-Ming Zheng 2013/10/24		product family METRAL			
surface 3.200 linear 		0.X	±0.3		title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		dwg no 89099		rev AV
		0.XX	±0.13						
		0.XXX	±0.051						
ISO 1302		angular 0°	±2°	www.fci.com	cat. no. -	Product - Customer Drw		sheet 1 of 6	



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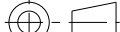


SCALE 2:1

REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR ADDITIONAL
PCB INFORMATION.

KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
P01	6.50	4.30
P02	7.25	4.30
P03	8.00	4.30
P04	6.50	13.60
P05	7.25	13.60
P06	8.00	13.60
P07	6.50	17.00
P08	7.25	17.00
P09	8.00	17.00
PI6	5.00	4.30
PI7	5.75	4.30

spec ref *				dr	Terran Huang	2010/07/08	projection 	mm 	size	A4	scale	2:1		
tolerance std				eng	Andy Lu	2013/10/22			ecn no				ELX-DG-16119-1	
ISO 406 ISO 1101				chr	Sun Richard	2013/10/24			rel level				Released	
TOLERANCES UNLESS OTHERWISE SPECIFIED				appr	Pei-Ming Zheng	2013/10/24			product family				METRAL	
surface 3.200 linear  ISO 1302		0.X	±0.3		title	METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT				dwg no	89099		rev	AW
		0.XX	±0.13											
		0.XXX	±0.051											
angular		0°	±2°	www.fci.com		cat. no.	-				Product - Customer Drw		sheet 2 of 6	

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METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X01 SEE NOTE 10 LEAD FREE OPTION	E	PI6	PI6
	D	PI6	PI6
	C	PI6	PI6
	B	PI6	PI6
	A	PI6	PI6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X02 SEE NOTE 10 LEAD FREE OPTION	E	PI6	PI6
	D	PI6	PI6
	C	PI6	PI6
	B	PI6	PI6
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X03 SEE NOTE 10 LEAD FREE OPTION	E	PI7	PI7
	D	P01	P01
	C	PI7	PI7
	B	PI7	PI7
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X04 SEE NOTE 10 LEAD FREE OPTION	E	PI7	PI7
	D	PI7	PI7
	C	PI7	PI7
	B	P02	P02
	A	PI7	PI7

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X05 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P02	P02
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X06 SEE NOTE 10 LEAD FREE OPTION	E	PI7	PI7
	D	PI7	PI7
	C	PI7	PI7
	B	PI7	PI7
	A	PI7	PI7

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X07 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P02	P02
	C	P02	P02
	B	P02	P02
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X10 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P02	P02
	B	P03	P03
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X11 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P01	P01
	B	P01	P01
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X12 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P01	P01
	B	P03	P03
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X13 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P02	P02
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X14 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P03	P03
	C	P03	P03
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X15 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P02	P02
	C	P02	P02
	B	P02	P02
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X16 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P02	P02
	B	P02	P02
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X17 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P01	P01
	B	P01	P01
	A	P03	P03

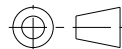
METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X18 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P03	P03
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X20 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P05	P05
	B	P06	P06
	A	P05	P05

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X21 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P04	P04
	B	P04	P04
	A	P04	P04

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X22 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P04	P04
	B	P06	P06
	A	P04	P04

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X23 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P05	P05
	B	P06	P06
	A	P06	P06

spec ref		*		dr	Terran Huang	2010/07/08	projection 	mm 	size	A4	scale	1:1
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Andy Lu	2013/10/22			ecn no		ELX-DG-16119-1	
ISO 406 ISO 1101				chr	Sun Richard	2013/10/24			rel level		Released	
				appr	Pei-Ming Zheng	2013/10/24			product family		METRAL	
surface 3.200 linear  ISO 1302		0.X	±0.3		title	METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		dwg no	89099		rev	AW
		0.XX	±0.13									
		0.XXX	±0.051									
		angular	0° ±2°	www.fci.com	cat. no.	-		Product - Customer Drw		sheet 3 of 6		



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METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X24 SEE NOTE 10 LEAD FREE OPTION	E	P06	P06
	D	P06	P06
	C	P06	P06
	B	P06	P06
	A	P06	P06

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X25 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05
	D	P05	P05
	C	P05	P05
	B	P05	P05
	A	P05	P05

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X26 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P05	P05
	B	P05	P05
	A	P06	P06

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X27 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P04	P04
	B	P04	P04
	A	P06	P06

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X28 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P06	P06
	B	P06	P06
	A	P06	P06

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X30 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P08	P08
	B	P09	P09
	A	P08	P08

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X31 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P07	P07
	B	P07	P07
	A	P07	P07

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X32 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P07	P07
	B	P09	P09
	A	P07	P07

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X33 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P08	P08
	B	P09	P09
	A	P09	P09

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X34 SEE NOTE 10 LEAD FREE OPTION	E	P09	P09
	D	P09	P09
	C	P09	P09
	B	P09	P09
	A	P09	P09

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X35 SEE NOTE 10 LEAD FREE OPTION	E	P08	P08
	D	P08	P08
	C	P08	P08
	B	P08	P08
	A	P08	P08

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X36 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P08	P08
	B	P08	P08
	A	P09	P09

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X37 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P07	P07
	B	P07	P07
	A	P09	P09

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X38 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07
	D	P07	P07
	C	P09	P09
	B	P09	P09
	A	P09	P09

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X39 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P01	P01
	C	P01	P01
	B	P01	P01
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X40 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P01	P01
	C	P02	P02
	B	P01	P01
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X41 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P03	P03
	C	P03	P03
	B	P03	P03
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X42 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P02	P02
	C	P02	P02
	B	P02	P02
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X43 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P03	P03
	C	P03	P03
	B	P02	P02
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X44 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P03	P03
	C	P03	P03
	B	P16	P16
	A	P03	P03

spec ref *		dr Terran Huang		2010/07/08		projection 	mm 	size A4	scale 1:1
tolerance std		eng Andy Lu		2013/10/22				ecn no ELX-DG-16119-1	
ISO 406 ISO 1101		chr Sun Richard		2013/10/24				rel level Released	
surface 3.2		appr Pei-Ming Zheng		2013/10/24		product family METRAL		dwg no 89099	
ISO 1302		angular 0°		±2°		title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT		rev AW	
www.fci.com		cat. no.		-		Product - Customer Drw		sheet 4 of 6	



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METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X45 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P02	P02
	C	P17	P17
	B	P17	P17
	A	P17	P17

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X46 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P03	P03
	C	P01	P01
	B	P03	P03
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X47 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P02	P02
	B	P03	P03
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X48 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P04	P04
	C	P06	P06
	B	P04	P04
	A	P04	P04

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X49 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P03	P03
	C	P03	P03
	B	P03	P03
	A	P02	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X50 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P03	P03
	B	P01	P01
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X51 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P16	P16
	B	P01	P01
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X52 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P02	P02
	C	P03	P03
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X53 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05
	D	P05	P05
	C	P06	P06
	B	P04	P04
	A	P04	P04

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X54 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P02	P02
	C	P03	P03
	B	P01	P01
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X55 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P02	P02
	C	P02	P02
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X56 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05
	D	P05	P05
	C	P05	P05
	B	P05	P05
	A	P04	P04

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X57 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P01	P01
	C	P01	P01
	B	P01	P01
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X58 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P03	P03
	C	P01	P01
	B	P03	P03
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X59 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16
	D	P03	P03
	C	P03	P03
	B	P03	P03
	A	P03	P03

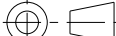
METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X60 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01
	C	P03	P03
	B	P03	P03
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X61 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03
	D	P03	P03
	C	P02	P02
	B	P01	P01
	A	P01	P01

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X62 SEE NOTE 10 LEAD FREE OPTION	E	P06	P06
	D	P05	P05
	C	P05	P05
	B	P06	P06
	A	P05	P05

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X63 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P02	P02
	C	P01	P01
	B	P02	P02
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		I	2
89099-X64 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P02	P02
	C	P01	P01
	B	P03	P03
	A	P01	P01

spec ref		*		dr	Terran Huang	2010/07/08	projection 	mm 	size	A4	scale	1:1
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Andy Lu	2013/10/22			ecn no	ELX-DG-16119-1		
ISO 406 ISO 1101				chr	Sun Richard	2013/10/24			rel level			
				appr	Pei-Ming Zheng	2013/10/24	product family		METRAL		Released	
surface 3.200 linear  ISO 1302		0.X	±0.3		title	METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT			dwg no	89099		rev
		0.XX	±0.13									
		0.XXX	±0.051									
	angular	0°	±2°	www.fci.com	cat. no.	-	Product - Customer Drw			sheet 5 of 6		



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METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X65 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17
	D	P03	P03
	C	P03	P03
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X66 ----- 89099-X66LF	E	P17	P17
	D	P17	P17
	C	P02	P02
	B	P02	P02
	A	P17	P17

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X67 ----- 89099-X67LF	E	P01	P01
	D	P02	P02
	C	P02	P02
	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X68 ----- 89099-X68LF	E	P01	P01
	D	P02	P02
	C	P02	P02
	B	P02	P02
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X69 ----- 89099-X69LF	E	P03	P03
	D	P16	P16
	C	P16	P16
	B	P16	P16
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X70 ----- 89099-X70LF	E	P01	P01
	D	P03	P01
	C	P03	P03
	B	P03	P03
	A	P03	P02

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X71 ----- 89099-X71LF	E	P03	P03
	D	P03	P03
	C	P03	P02
	B	P03	P02
	A	P03	P03

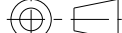
METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X72 ----- 89099-X72LF	E	P01	P01
	D	P02	P02
	C	P16	P16
	B	-	-
	A	P02	P02

NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL

POLYMER 30 % GLASS.

FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:
89099 -XXX IS SnPb
89099-XXYLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"
WILL BE ADDED TO THE END OF THE PART NUMBER.
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-075
- AFTER INSERTION INTO CIRCUIT BOARD WITH
QUALIFIED TOOL.
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS
AS DESCRIBED IN GS-22-008.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
EXAMPLE: 89099-X01LF
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR
60 SECONDS IN CONVECTION, INFAR-RED OR VAPOR PHASE
REFLOW OVEN.

spec ref *				dr Terran Huang2010/07/08		projection 	mm 	sizeA4	scale1:1	
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng Andy Lu2013/10/22				ecn noELX-DG-16119-1		
ISO 406				chr Sun Richard2013/10/24						
ISO 1101				appr Pei-Ming Zheng2013/10/24				product familyMETRAL		rel levelReleased
surface 3.200 linear 		0.X	±0.3		titleMETRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT	dwg no89099	revAV			
		0.XX	±0.13							
		0.XXX	±0.051							
	ISO 1302	angular	0°							