



	I	2		3	4
A	METRAL P/N         CONTACT CODE MOD.           89099-X01         E         P16         P16           SEE NOTE 10 LEAD FREE OPTION         D         P16         P16           B         P16         P16         B           B         P16         P16           A         P16         P16	METRAL P/N         CONTACT CODE MOD.           89099-X05         E         P01         P01           SEE NOTE 10 LEAD FREE OFTION         D         P01         P01           B         P03         P03           A         P03         P03	METRAL P/N         CONTACT CODE MOD.           ROW         I         2           89099-X11         E         POI         POI           SEE NOTE 10 LEAD FREE OPTION         D         POI         POI           B         POI         POI         POI           A         POI         POI         POI	METRAL P/N         CONTACT CODE MOD.           ROW         I         2           89099-X15         E         PO2           SEE NOTE 10 LEAD FREE OPTION         D         PO2           B         PO2         PO2           A         PO2         PO2	METRAL P/N         CONTACT CODE MOD.           ROW         I         2           89099-X20         E         P04         P04           SEE NOTE IO LEAD FREE OPTION         D         P04         P04           C         P05         P05         B         P06         P06           A         P05         P05         P05         P05
_	METRAL P/N         CONTACT CODE MOD.           89099-X02         E         P16         P16           SEE NOTE 10 LEAD FIRM OPTION         D         P16         P16	METRAL P/N         CONTACT_CODE MOD.           89099-X06         E         P17         P17           SEE NOTE 10 LEAD FREE OPTION         D         P17         P17	METRAL P/N         CONTACT CODE MOD. 1           89099-X12         E         P01         P01           SEE NOTE 10 LEAD FREE OPTION         D         P01         P01	ME TRAL P/N         CONTACT_CODE MOD.           ROW         I         2           89099-X16         E         P01         P01           SEE NOTE 10 LEAD FREE         D         P01         P01           CONTROL         C         P02         P02	METRAL P/N         CONTACT CODE MOD. I           ROW         I         2           89099-X21         E         P04         P04           SEE NOTE 10         D         P04         P04           LEAD FREE OPTION         C         P04         P04
В	B         P16         P16           A         P01         P01           METRAL P/N         CONTACT CODE MOD.         CONTACT CODE           89099-X03         E         P17           SEE NOTE 10 LEAD FREE         D         P01         P01	B         P17         P17           A         P17         P17           METRAL P/N         CONTACT CODE MOD.         I           B0999:X07         E         P02         P02           SEE NOTE IO LEAD FREE OPTION         D         P02         P02         P02	B         P03         P03           A         P01         P01           METRAL P/N         CONTACT CODE MOD.         1           ROW         I         2           89099-X13         E         P01           SEE NOTE IO LEAD FREE OPTION         D         P01           C         P02         P02	B         P02         P02           A         P03         P03           METRAL P/N         CONTACT CODE MOD. 1         CONTACT CODE MOD. 1           ROW         I         2           89099-X17         E         P01           SEE NOTE 10 LEAD FREE OPTION         D         P01           C         P01         P01	B         P04         P04           A         P04         P04           METRAL P/N         CONTACT CODE MOD.         P04           ROW         I         2           89099-X22         E         P04         P04           SEE NOTE 10 LEAD FREE OPTION         D         P04         P04           C         P04         P04         P04
<b>J</b>	C         P17         P17           B         P17         P17           B         P17         P17           A         P01         P01           METRAL         CONTACT CODE MOD. 1         MOD. 1           P/N         ROW         1         2           89099-X04         E         P17         P17           SEE NOTE 10         D         P17         P17	B         P02         P02           A         P02         P02           METRAL P/N         CONTACT CODE MOD. I         NOD.           S3099-X10         E         P01           SFF NOTE 10         D         P01	B         P03         P03           A         P03         P03           METRAL P/N         CONTACT CODE MOD. 1         MOD. 1           89099-X14         E         P03           SFF wort 10         D         P03	B         P01         P01           A         P03         P03           METRAL P/N         CONTACT CODE MOD. 1         MOD. 1           89099-X18         E         P01           SEE NOTE 10         D         P01	B         P06         P06           A         P04         P04           METRAL P/N         CONTACT CODE MOD. 1         1           89099-X23         E         P04         P04           SEE NOTE 10         D         P04         P04
Copyright FCL.	LEAD FREE OPTION         C         P17         P17           B         P02         P02           A         P17         P17	LEAD FREE OPTION         C         P02         P02           B         P03         P03           A         P02         P02	LEAD FREE         C         P03         P03           OPTION         B         P03         P03           A         P03         P03	LÊAD FREE OPTION         C         P03         P03           B         P03         P03         P03           A         P03         P03	LEAD FREE OPTION B P06 P06 A P06 P06
C opy			Dr T.BRU Eng M.STF Chr M.STF	INGARD II/19/99 ANGULAR RAWSER II/19/99 ANGULAR LINEAR RAWSER 02/29/00 Product fami	tolerance std projection 150 406 150 1101 $\bigcirc$
			FÇj	METRAL POWER HEADER I MOD, 5 ROW PRESS-FIT cotalog no	- CUSTOMER sheet 3 of 6
	Rfv f - 2006-04-11	2		PDM: Rev:AS STATUS:	Released <sup>4</sup> Printed: Aug 17, 2010

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	A A A A A A A A A A A A A A A A A A A	METRAL P/N         MOD.         I           83099-X28         E         P04         P04           SEE NOTE IO LEAD FREE OPTION         C         P06         P06	METRAL P/N         MOD. I           ROW         I         2           89099-X33         E         P07         P07           SEE NOTE IO LEAD FREE         C         P08         P08           B         P09         P09         P09	METRAL P/N         MOD. I           P/N         ROW         I         2           89099-X37         E         P07         P07           SEE NOTE 10 LEAD FREE         C         P07         P07           B         P07         P07         SEI	MCTRAL P/N         MOD.         I           ROW         I         2           8009-X41         E         P01         P01           D         P03         P03         P03           KNOTE 10         C         P03         P03           OPTION         B         P03         P03
$ \frac{P_{1N}}{p_{1N}} \frac{1}{p_{1N}} \frac{1}{p_{1N$	METRAL         MOD. I           P/N         ROW         I         2           89099-X25         E         P05         D           SEE NOTE IO LEAD FREE OPTION         C         P05         P05           B         P05         P05	METRAL P/N         MOD. I           89099-X30         E         P07         P07           SEE NOTE IO LEAD FREE         D         P07         P07           C         P08         P08           B         P09         P09	METRAL P/N         MOD. i           ROW         I         2           89099-X34         E         P09         P09           SEE NOTE IO LEAD FREE         C         P09         P09           B         P09         P09         P09	METRAL         MOD. I           P/N         ROW         I         2           89099-X38         E         P07         P07           SEE NOTE IO         D         P07         P07           LEAD FREE OPTION         C         P09         P09           B         P09         P09	MOD.         I           P/N         ROW         I         2           0099-X42         E         POI         POI           D         PO2         PO2           AD FREE         C         PO2         PO2           QPTION         B         PO2         PO2
C	METRAL P/N         MOD. ROW         I         Z           89099-X26         E         P04         P04           SEE NOTE 10 LEAD FRE OPTION         C         P05         P05           8         P05         P05         P05	METRAL P/N         MOD. i           89099-X31         E         P07         P07           SEE NOTE IO LEAD FREE OPTION         C         P07         P07	P/N         ROW         I         2           89099-X35         E         P08         P08           D         P08         P08           LEAD FREE OPTION         C         P08         P08           B         P08         P08	METRAL P/N         MOD. I           P/N         ROW         I         2           89099-X39         E         P03         P03           SEE NOTE 10 LEAD FREE OPTION         D         P01         P01           B         P01         P01         P01	MOD.         I           P/N         ROW         I         Z           099-X43         E         P03         P03           AD FREE OPTION         D         P03         P03           B         P02         P02         P02
D Www.fciconnect.com Surface3.208 tolerance std projection TOLERANCES UNLESS VOILESS SECTIFIED TOLERANCES UNLESS SECTIFIED TOLERAN	C SEE NOTE 10 LEAD FREE OPTION C D D PO4 PO4 PO4 C PO4 PO4 C PO4	MCTRAL P/N         MOD. i           89099-X32         E         P07         P07           SEE NOTE IO LEAD FREE OPTION         D         P07         P07           B         P09         P09	ME   RAL P / N         KOW         I         2           89099-X36         E         P07         P07           SEE NOTE LAD FREE OPTION         D         P07         P07           C         P08         P08         P08	MCTRAL P/N         MOD. i           P/N         ROW         I         2           89099-X40         E         P02         P02           SEE NOTE IO LEAD FREE OPTION         D         P01         P01           B         P01         P01         E	METRAL MOD. I P/N ROW I 2 0099-X44 E P03 P03 AD FREE 0 OPTION C P03 P03 B P16 P16 B P16 P16
RVT - 10441-03	D		Eng Chr	www.fciconnect.com         150 1302         V           TOLERANCES UNLESS         TOLERANCES UNLESS           M.STRAWSER         11/19/99         ANGULAR           M.STRAWSER         11/19/99         of ±2*           M.STRAWSER         02/29/00         Product fomi	ISO 406         ISO 1101         ●

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A	METRAL P/N         CONTACT CODE MOD. i           S0099-X45         E         P03         P03           SEE NOTE IO LEAD FREE OPTION         D         P02         P02           E         P17         P17         P17           A         P17         P17	METRAL P/N         CONTACT MOD.         CODE I           89099-X49         E         P02         P02           SEE NOTE IO LEAD FREE OPTION         C         P03         P03           B         P03         P03         B03           A         P02         P02         P02	METRAL P/N         CONTACT CODE MOD.           89099-X53         E         P05           SEE NOTE IO LEAD FREIO CPTION         D         P05           B         P04         P04           A         P04         P04	METRAL P/N         CONTACT CODE MOD. 1           89099-X57         E         P03         P03           SEE NOTE IO LEAD FREE OPTION         D         P01         P01           B         P01         P01         A         P03         P03	METRAL P.N         CONTACT CODE MOD.           8909-x61         E           8909-x61         E           E         P03           SEE NOTE 10 LEAD FREE OPTION         D           B         P01           A         P01	A
	METRAL         CONTACT CODE MOD. I           P/N         ROW         I         2           89099-X46         E         P03         P03           SEE NOTE IO LEAD FREE OPTION         D         P03         P03	METRAL P/N         CONTACT CODE MOD.           P/N         ROW         I         2           89099-X50         E         P01         P01           SEE NOTE 10         D         P01         P01           LEAD FREE OPTION         C         P03         P03	METRAL P/N         CONTACT CODE MOD. I           P/N         ROW         I         2           89099-X54         E         P02         P02           SEE NOTE IO LEAD FREE OPTION         C         P03         P02           0         P03         P03         P03	METRAL         CONTACT CODE MOD. I           P/N         ROW         I         2           89099-X58         E         P0I         P0I           SEE NOTE IO LEAD FREE OPTION         D         P03         P03	METRAL P/N         CONTACT CODE MOD.           B9099-X62         E         P06         P06           SEE NOTE 10 LEAD FREE OPTION         C         P05         P05	
В	B         P03         P03           A         P01         P01           METRAL P/N         ROW         CONTACT CODE MOD. 1         P01           89099-X47         E         P01         P01           SEE NOTE 10         D         P01         P01	B         P01         P01           A         P01         P01           METRAL         CONTACT CODE MOD. I         MOD. I           P/N         ROW         I         2           89099-X51         E         P01         P01           SEE NOTE 10         D         P01         P01	B         POI         POI           A         POI         POI           METRAL         CONTACT CODE MOD. I         2           89099-X55         E         PO2         PO2           SEF WOTE 10         D         PO2         PO2	B         P03         P03           A         P01         P01           METRAL P/N         CONTACT CODE MOD, i         P01           89099-X59         E         P16           SEE NOTE 10         D         P03         P03           LEAD FREE         C         P03         P03	B         P06         P06           A         P05         P05           METRAL P/N         CONTACT CODE MOD.         I           89099-x63         E         P01         P01           SEE NOTE ID         D         P02         P02	В
	LEAD FRE OPTION         C         P02         P02           B         P03         P03         P03           METRAL P/N         CONTACT CODE MOD.         MOD.         1           89099-X48         E         P04         P04           SEE NOTE 10         D         P04         P04	LEAD FREE         C         P16         P16           0PTION         8         P01         P01           A         P01         P01           P/N         ROW         I         2           89099-X52         E         P03         P03           SEE NOTE ID         D         P02         P02	LEAD FREE OPTION         C         P02         P02           B         P03         P03         P03           METRAL P/N         ROW         P03         P03           89099-X56         E         P05         P05           SEE WOTE 10         D         P05         P05	OPTION         C         100         100           B         P03         P03         P03           METRAL P/N         CONTACT CODE MOD. I         CONTACT CODE           89099-X60         E         P01         P01           SEE NOTE I0         D         P01         P01	LEAD FREE         C         P01         P01           0PTION         B         P02         P02           A         P03         P03           METRAL P/N         CONTACT CODE MOD. I         ROW I         2           89099-X64         E         P02         P02           SEE NOTE I0         D         P02         P02	C
Copyright FCI.	LEAD FREE         C         P06         P06           B         P04         P04         P04           METRAL         CONTACT CODE MOD.         MOD.         1           P/N         ROW         I         2           89099-x65         E         P17         P17	SEE NOTE IO LEAD FRE OPTION         U         P02         P02           B         P03         P03           A         P03         P03	LÊAD FREE         C         P05         P05           OPTION         B         P05         P05           A         P04         P04	LEAD FREE OPTION 8 P03 P03 A P01 P01	LÉAD FREE OPTION 8 P03 P03 A P01 P01	
D	SEE         NOTE 10 LEAD FREE OPTION         D         P03         P03           B         P03         P03         P03           A         P03         P03		www.fci Dr T.BRUNG/ Eng M.STRAW: Chr M.STRAW: Appr M.STRAW:	connect.com         ISO I302         I           ARD         I I / 19/99         ANGULAR         LINEAR           SER         I / 19/99         0" ± 2"         LINEAR	0.X ±0.3 size A 4 Scole 0.XX ±0.13 A 4 II:10 0.XXX ±0.051 ECN • METRAL Spec ref • 2 Rev.	D
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	METRAL CONTACT CODE MOD. I	NOTES:	
	P/N ROW I 2	I. FOR DIM A AND B SEE SHEET 2 AND UP.	
	E PI7 PI7	2. BODY MATERIAL: LIQUID CRYSTAL	
	89099-X66 D P17 P17 C P02 P02	POLYMER 30 % GLASS.	
A	89099-X66LF B P02 P02	FLAME RETARDANT ACC. UL 94-VO.	4
	A P17 P17	3. PIN MATERIAL: PHOSPHOR BRONZE.	
	METRAL CONTACT CODE MOD. 1 P/N ROW I 2	4. PLATING ON PRESS-FIT TAIL: 89099 -XYY IS SAPB	
	89099-X67 E POI POI	89099-XYYLF IS SN (LEAD FREE) PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVYL SHOWN IN TABLE.	
	D         P02         P02           89099-x67LF         C         P02         P02	5. PRODUCT MARKING:	
	B P03 P03 A P03 P03	PART NUMBER DESIGNATION & BATCH I.D.	
		6. ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"	
В	P/N ROW I 2	WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF	J
	89099-X68 E P01 P01 D P02 P02	7. PRODUCT SPECIFICATION GS-12-180 APPLICATION SPECIFICATION BUS-20-075	
	89099-X68LF C P02 P02 B P02 P02	(8) AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.	
	A P03 P03	(9) THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS	
<b>U</b>	METRAL P/N ROW I 2	AS DESCRIBED IN GS-22-008. (10) FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.	
Ĩ.	89099-X69 E P03 P03	EXAMPLE: 89099-X01LF	
с	D PI6 PI6 C PI6 PI6	II. ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN CONVECTION, INFAR-RED OR VAPOR PHASE REFLOW OVEN.	:
	89099-X69LF B PI6 PI6 A P03 P03	ACIEUW OVEN,	
CL.			
gh+ F			
Copyright FCI			
Ŭ		www.fciconnect.com	
D		Dr         T.BRUNGARD         II//9/99         ANGULAR         UNEAR         5.2 ± 0.3         size         Ad         II/IO         Cole         Cole <thcole< th="">         Cole         <thcole< <="" td=""><td>)</td></thcole<></thcole<>	)
		Appr M.STRAWSER 02/29/00 Product family METRAL Spec ref	
		FC) E METRAL POWER HEADER 89099 AS	
	REV F - 2006-04-17	catalog no - CUSTOMER sheet 6 of 6	
		2 PDM: Rev:AS STATUS: Released <sup>4</sup> Printed: Aug 17, 2010	