

1

2

3

4

A

B

C

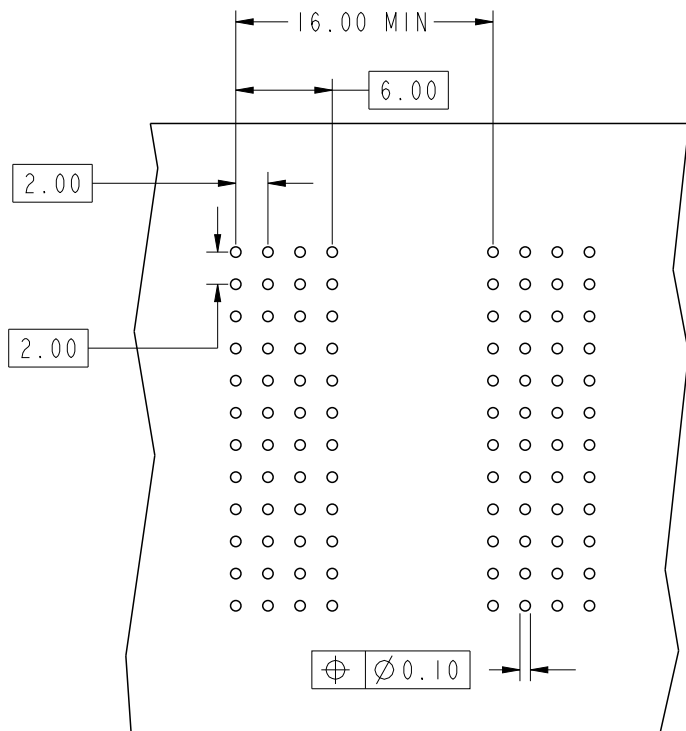
D

A

B

C

D



KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	6.50	4.30
2	7.25	4.30
3	8.00	4.30
4	6.50	13.60
5	7.25	13.60
6	8.00	13.60
7	6.50	17.00
8	7.25	17.00
9	8.00	17.00

REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION



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spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	21:10		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2011/12/20				ecn no		ELX-DG-009045-1		
		chr	Tao Huang	2011/12/20				product family	METRAL		rel level	
surface	3.200 linear	appr	Pei-Ming Zheng	2011/12/20			title METRAL POWER HEADER 1 MOD, 4 ROW PRESS-FIT		dwg no 70238		rev	AP
ASME Y14.5	angular				www.fci.com	cat. no.	-	Product - Customer Drw		sheet 2 of 6		
	0.X		±0.3									
	0.XX		±0.13									
	0.XXX		±.050									
	0°		±2°									

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1

2

3

4



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METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X01 SEE NOTE 11 LEAD FREE OPTION	D	3	1
	C	3	1
	B	3	1
	A	3	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X06 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	-	2
	B	-	3
	A	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X21 SEE NOTE 11 LEAD FREE OPTION	D	6	4
	C	6	4
	B	6	4
	A	6	4

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X26 SEE NOTE 11 LEAD FREE OPTION	D	4	4
	C	-	5
	B	-	6
	A	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X31 SEE NOTE 11 LEAD FREE OPTION	D	9	7
	C	9	7
	B	9	7
	A	9	7

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X02 SEE NOTE 11 LEAD FREE OPTION	D	3	2
	C	3	2
	B	3	2
	A	3	2

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X07 SEE NOTE 11 LEAD FREE OPTION	D	2	2
	C	1	1
	B	1	1
	A	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X22 SEE NOTE 11 LEAD FREE OPTION	D	6	5
	C	6	5
	B	6	5
	A	6	5

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X27 SEE NOTE 11 LEAD FREE OPTION	D	5	5
	C	4	4
	B	4	4
	A	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X32 SEE NOTE 11 LEAD FREE OPTION	D	9	8
	C	9	8
	B	9	8
	A	9	8

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X03 SEE NOTE 11 LEAD FREE OPTION	D	2	3
	C	2	3
	B	2	3
	A	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X08 SEE NOTE 11 LEAD FREE OPTION	D	2	2
	C	2	2
	B	2	2
	A	3	2

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X23 SEE NOTE 11 LEAD FREE OPTION	D	5	6
	C	5	6
	B	5	6
	A	5	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X28 SEE NOTE 11 LEAD FREE OPTION	D	5	5
	C	5	5
	B	5	5
	A	6	5

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X33 SEE NOTE 11 LEAD FREE OPTION	D	8	9
	C	8	9
	B	8	9
	A	8	9

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X04 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	3	3
	B	3	3
	A	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X09 SEE NOTE 11 LEAD FREE OPTION	D	2	1
	C	2	1
	B	2	1
	A	2	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X24 SEE NOTE 11 LEAD FREE OPTION	D	6	6
	C	6	6
	B	6	6
	A	5	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X29 SEE NOTE 11 LEAD FREE OPTION	D	5	4
	C	5	4
	B	5	4
	A	5	4

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X34 SEE NOTE 11 LEAD FREE OPTION	D	9	9
	C	9	9
	B	9	9
	A	8	9

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X05 SEE NOTE 11 LEAD FREE OPTION	D	1	3
	C	1	3
	B	1	3
	A	1	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	2
	C	1	2
	B	1	2
	A	1	2

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X25 SEE NOTE 11 LEAD FREE OPTION	D	4	6
	C	4	6
	B	4	6
	A	4	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X30 SEE NOTE 11 LEAD FREE OPTION	D	4	5
	C	4	5
	B	4	5
	A	4	5

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X35 SEE NOTE 11 LEAD FREE OPTION	D	7	9
	C	7	9
	B	7	9
	A	7	9

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:10
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2011/12/20			ecn no	ELX-DG-009045-1		
		chr	Tao Huang	2011/12/20				product family	METRAL	rel level
		appr	Pei-Ming Zheng	2011/12/20			rev	AP		
surface	3.200	near	0.X	±0.3			dwg no	70238		
			0.XX	±0.13						
			0.XXX	±0.050						
ASME Y14.5		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
70238-X36 SEE NOTE 11 LEAD FREE OPTION	D	7	7
	C	-	8
	B	-	9
	A	9	9

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X41 SEE NOTE 11 LEAD FREE OPTION	D	3	2
	C	3	-
	B	3	2
	A	-	-

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X46 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	1	1
	B	3	1
	A	3	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X53 SEE NOTE 11 LEAD FREE OPTION	D	6	6
	C	6	6
	B	4	4
	A	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X58 SEE NOTE 11 LEAD FREE OPTION	D	6	6
	C	6	4
	B	4	4
	A	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X37 SEE NOTE 11 LEAD FREE OPTION	D	8	8
	C	7	7
	B	7	7
	A	9	9

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X42 SEE NOTE 11 LEAD FREE OPTION	D	-	3
	C	-	3
	B	-	3
	A	-	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X47 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	3	3
	B	1	3
	A	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X54 SEE NOTE 11 LEAD FREE OPTION	D	4	4
	C	4	4
	B	4	6
	A	4	4

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X61 SEE NOTE 11 LEAD FREE OPTION	D	9	8
	C	9	-
	B	9	8
	A	-	-

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X38 SEE NOTE 11 LEAD FREE OPTION	D	8	8
	C	8	8
	B	8	8
	A	9	8

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X43 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	3	3
	B	1	1
	A	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X48 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	3	1
	B	1	1
	A	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X55 SEE NOTE 11 LEAD FREE OPTION	D	4	4
	C	4	4
	B	4	4
	A	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X62 SEE NOTE 11 LEAD FREE OPTION	D	-	9
	C	-	9
	B	-	9
	A	-	9

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X39 SEE NOTE 11 LEAD FREE OPTION	D	8	7
	C	8	7
	B	8	7
	A	8	7

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X44 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	1	1
	B	1	3
	A	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X51 SEE NOTE 11 LEAD FREE OPTION	D	6	5
	C	6	-
	B	6	5
	A	-	-

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X56 SEE NOTE 11 LEAD FREE OPTION	D	4	4
	C	4	4
	B	6	4
	A	6	4

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X63 SEE NOTE 11 LEAD FREE OPTION	D	9	9
	C	9	9
	B	7	7
	A	7	7

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X40 SEE NOTE 11 LEAD FREE OPTION	D	7	8
	C	7	8
	B	7	8
	A	7	8

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X45 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	1	1
	B	1	1
	A	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X52 SEE NOTE 11 LEAD FREE OPTION	D	-	6
	C	-	6
	B	-	6
	A	-	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X57 SEE NOTE 11 LEAD FREE OPTION	D	6	6
	C	6	6
	B	4	6
	A	6	6

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X64 SEE NOTE 11 LEAD FREE OPTION	D	7	7
	C	7	7
	B	7	9
	A	7	7

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:10
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2011/12/20			ecn no	ELX-DG-009045-1	rel level	Released
		chr	Tao Huang	2011/12/20						
		appr	Pei-Ming Zheng	2011/12/20			rev	70238	AP	
surface	3.200 inear	0.X	±0.3		METRAL POWER HEADER 1 MOD, 4 ROW PRESS-FIT		cat. no.	-	Product - Customer Drw	sheet 4 of 6
		0.XX	±0.13							
		0.XXX	±.050							
ASME Y14.5	angular	0°	±2°	www.fci.com			dwg no	70238	rev	AP

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METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1	
		1	2			1	2			1	2			1	2
70238-X65	D	7	7	70238-X70	D	1	1	70238-X75	D	3	2	70238-X80	D	1	3
SEE NOTE 11 LEAD FREE OPTION	C	7	7	SEE NOTE 11 LEAD FREE OPTION	C	2	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	1	3
	B	7	7		B	1	1		B	1	3		B	1	3
	A	9	9		A	2	2		A	2	3		A	1	3
70238-X66	D	7	7	70238-X71	D	3	3	70238-X76	D	2	2	70238-X81	D	3	1
SEE NOTE 11 LEAD FREE OPTION	C	7	7	SEE NOTE 11 LEAD FREE OPTION	C	-	-	SEE NOTE 11 LEAD FREE OPTION	C	1	1	SEE NOTE 11 LEAD FREE OPTION	C	3	1
	B	9	7		B	2	2		B	1	1		B	3	1
	A	9	7		A	2	2		A	1	1		A	3	1
70238-X67	D	9	9	70238-X72	D	1	1	70238-X77	D	2	2	70238-X82	D	1	1
SEE NOTE 11 LEAD FREE OPTION	C	9	9	SEE NOTE 11 LEAD FREE OPTION	C	-	-	SEE NOTE 11 LEAD FREE OPTION	C	3	3	SEE NOTE 11 LEAD FREE OPTION	C	1	1
	B	7	9		B	-	-		B	2	2		B	3	3
	A	9	9		A	1	1		A	3	2		A	3	1
70238-X68	D	9	9	70238-X73	D	2	3	70238-X78	D	3	3	70238-X83	D	1	1
SEE NOTE 11 LEAD FREE OPTION	C	9	7	SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	3	3	SEE NOTE 11 LEAD FREE OPTION	C	1	1
	B	7	7		B	2	1		B	3	3		B	3	2
	A	9	9		A	2	3		A	2	3		A	1	1
70238-X69	D	2	2	70238-X74	D	3	2	70238-X79	D	-	2	70238-X84	D	3	2
SEE NOTE 11 LEAD FREE OPTION	C	2	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	-	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2
	B	1	1		B	2	3		B	-	2		B	3	2
	A	2	3		A	2	3		A	-	2		A	3	2
70238-X85	D	2	3	70238-X86	D	1	3	70238-X81	D	3	1	70238-X86	D	1	3
SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	3	3	SEE NOTE 11 LEAD FREE OPTION	C	3	1	SEE NOTE 11 LEAD FREE OPTION	C	3	3
	B	2	3		B	2	2		B	3	1		B	3	3
	A	2	3		A	2	2		A	3	1		A	3	3
70238-X85	D	2	3	70238-X87	D	2	3	70238-X82	D	1	1	70238-X87	D	2	3
SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	1	1	SEE NOTE 11 LEAD FREE OPTION	C	2	3
	B	2	3		B	-	-		B	2	1		B	2	1
	A	2	3		A	2	3		A	2	3		A	2	3
70238-X85	D	2	3	70238-X88	D	3	2	70238-X83	D	1	1	70238-X88	D	3	2
SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	1	1	SEE NOTE 11 LEAD FREE OPTION	C	3	2
	B	2	3		B	2	1		B	2	3		B	2	3
	A	2	3		A	2	3		A	1	1		A	2	3
70238-X85	D	2	3	70238-X89	D	3	2	70238-X84	D	3	2	70238-X89	D	3	2
SEE NOTE 11 LEAD FREE OPTION	C	2	3	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2	SEE NOTE 11 LEAD FREE OPTION	C	3	2
	B	1	3		B	1	3		B	1	3		B	1	3
	A	2	3		A	2	3		A	2	3		A	2	3

spec ref	*	dr	Terran Huang	2010/07/08	projection		size	A4	scale	1:10		
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2011/12/20		mm	ecn no	ELX-DG-009045-1	rel level	Released		
surface	3.200 linear	chr	Tao Huang	2011/12/20							product family	METRAL
		appr	Pei-Ming Zheng	2011/12/20								
ASME Y14.5	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
70238-X90 SEE NOTE 11 LEAD FREE OPTION	D	2	3
	C	2	3
	B	2	1
	A	2	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X95 SEE NOTE 11 LEAD FREE OPTION	D	1	-
	C	-	1
	B	1	-
	A	-	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X91 SEE NOTE 11 LEAD FREE OPTION	D	1	1
	C	1	3
	B	3	3
	A	1	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X96 SEE NOTE 11 LEAD FREE OPTION	D	3	3
	C	3	2
	B	3	2
	A	3	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X92 SEE NOTE 11 LEAD FREE OPTION	D	-	1
	C	-	1
	B	-	1
	A	-	1

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X97 SEE NOTE 11 LEAD FREE OPTION	D	3	1
	C	2	2
	B	2	2
	A	2	2

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X93 SEE NOTE 11 LEAD FREE OPTION	D	1	2
	C	2	2
	B	1	3
	A	1	3

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X98 SEE NOTE 11 LEAD FREE OPTION	D	3	2
	C	3	2
	B	3	3
	A	3	3



METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
70238-X94 SEE NOTE 11 LEAD FREE OPTION	D	1	-
	C	1	-
	B	3	-
	A	1	-

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:
70238 -XYY IS SnPb
70238-XYYLF 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-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).
- 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. FOR EXAMPLE: 70238-X01LF
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

spec ref	*	dr	Terran Huang	2010/07/08	projection	mm	size	A4	scale	1:10				
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Andy Lu	2011/12/20			ecn no	ELX-DG-009045-1						
		chr	Tao Huang	2011/12/20				rel level	Released					
		appr	Pei-Ming Zheng	2011/12/20					product family	METRAL				
surface	3.2	0.X	±0.3		title	METRAL POWER HEADER	dwg no	70238	rev	AP				
ASME Y14.5	linear	0.XX	±0.13								cat. no.	-	Product - Customer Drw	sheet 6 of 6
	angular	0°	±2°											

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[1410337-1](#) [1410368-3](#) [1410964-2](#) [1410326-3](#) [1410367-3](#) [1410971-4](#) [1467833-1](#) [2000877-1](#) [2000878-1](#) [2041314-1](#) [2065387-1](#) [2187307-1](#)
[2187462-1](#) [2226278-6](#) [KA81-07](#) [91290-101LF](#) [1934290-1](#) [2000875-1](#) [2065917-1](#) [2102736-2](#) [FSR-40](#) [2169868-2](#) [2226279-2](#) [22354-8](#) [437-](#)
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