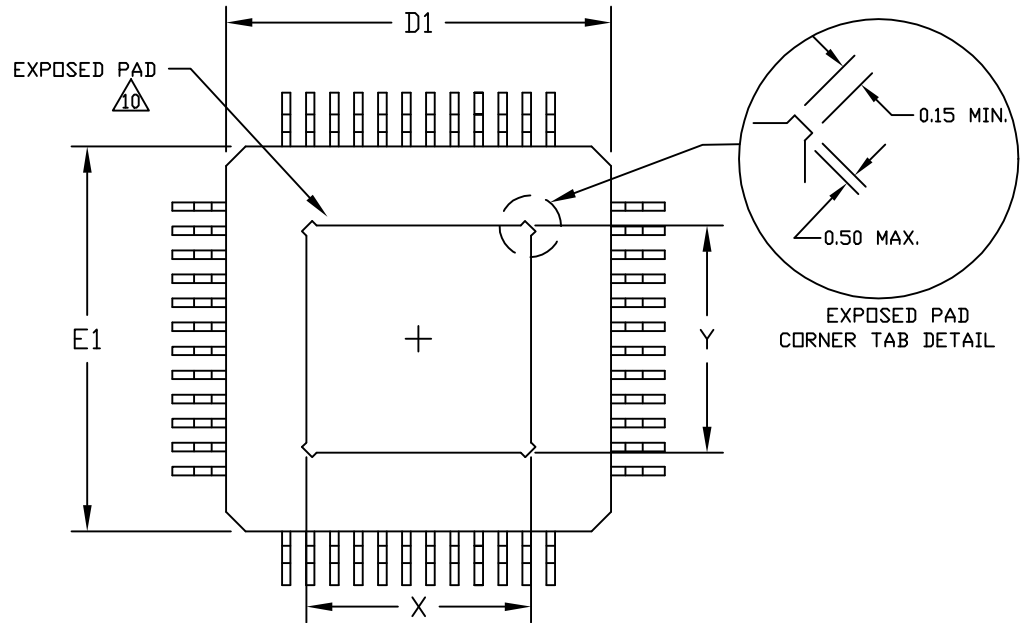
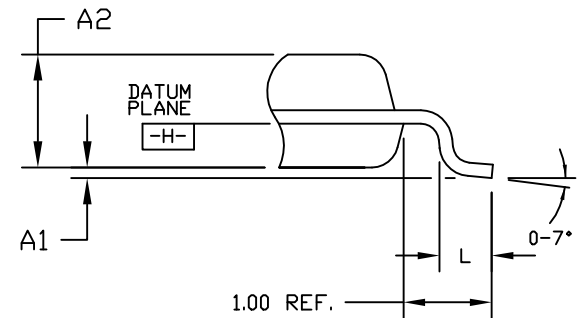
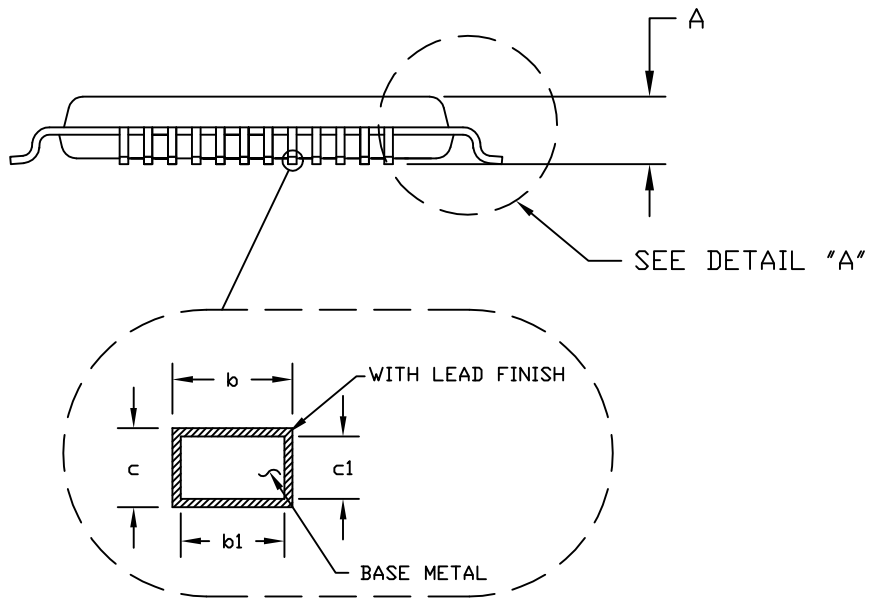


TOP VIEW



BOTTOM VIEW



DETAIL "A"

-DRAWING NOT TO SCALE-



TITLE: PACKAGE OUTLINE,
48L TQFP, 7x7x1.0mm EP OPTION

APPROVAL

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G

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NOTES:

1. ALL DIMENSIONS AND TOLERANCING CONFORM TO ANSI Y14.5-1982.
2. DATUM PLANE $\square-H-$ IS LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
3. DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION.
ALLOWABLE MOLD PROTRUSION IS 0.25 MM ON D1 AND E1 DIMENSIONS.
4. THE TOP OF PACKAGE IS SMALLER THAN THE BOTTOM OF PACKAGE BY 0.15 MILLIMETERS.
5. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 MM TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. ALL DIMENSIONS ARE IN MILLIMETERS.
7. THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-026, VARIATION ABA-HD.
8. LEADS SHALL BE COPLANAR WITHIN 0.08 MM.
9. EXPOSED DIE PAD SHALL BE COPLANAR WITH BOTTOM OF PACKAGE WITHIN 2 MILS (.05 MM).
10. DIMENSIONS X & Y APPLY TO EXPOSED PAD (EP) VERSIONS ONLY. SEE INDIVIDUAL PRODUCT DATASHEET TO DETERMINE IF A PRODUCT USES EXPOSED PAD PACKAGE.
11. MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
12. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.

SYMBOL	JEDEC VARIATION		
	ABC-HD		
	MIN.	NOM.	MAX.
A	<i>xx</i>	<i>xx</i>	1.20
A1	0.05	0.10	0.15
A2	0.95	1.00	1.05
D	8.90	9.00	9.10
D1	6.90	7.00	7.10
E	8.90	9.00	9.10
E1	6.90	7.00	7.10
L	0.45	0.60	0.75
N	48		
e	0.50 BSC.		
b	0.17	0.22	0.27
b1	0.17	0.20	0.23
c	0.09	--	0.20
c1	0.09	--	0.16

PKG. CODE	EXPOSED PAD VARIATIONS					
	X			Y		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
C48E-7	3.70	4.00	4.30	3.70	4.00	4.30
C48E-8	4.70	5.00	5.30	4.70	5.00	5.30
C48E-10	3.70	4.00	4.30	3.70	4.00	4.30



TITLE: PACKAGE OUTLINE,
48L TQFP, 7x7x1.0mm EP OPTION

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-DRAWING NOT TO SCALE-