

DETAIL "B"  
DAMBAR PROTRUSION

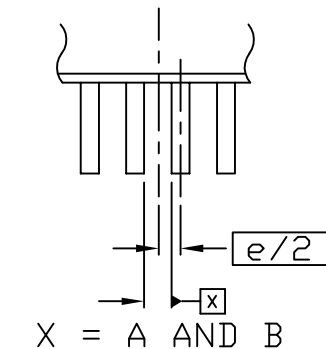
<b>MAXIM</b>			
TITLE: PACKAGE OUTLINE, 48L TSSOP-TOP EP, 6.1mm BODY, 0.5mm PITCH			
APPROVAL	DOCUMENT CONTROL NO. 21-0444	REV. B	1/2

-DRAWING NOT TO SCALE-

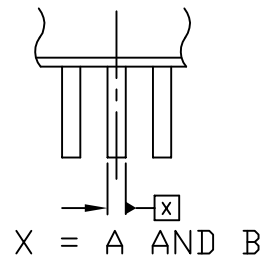
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-1994.
3. DIE THICKNESS ALLOWABLE IS  $0.279 \pm 0.0127$  (.0110  $\pm$  .0005 INCHES)
4. DATUM PLANE H LOCATED AT MOLD PARTING LINE AND CONCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
5. DATUMS A-B AND D TO BE DETERMINED WHERE CENTERLINE BETWEEN LEADS EXITS PLASTIC BODY AT DATUM PLANE H.
6. "D" & "E" ARE REFERENCE DATUMS AND DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS, AND ARE MEASURED AT THE BOTTOM PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15mm ON D AND 0.25mm ON E PER SIDE.
7. DIMENSION IS THE LENGTH OF TERMINAL FOR SOLDERING TO A SUBSTRATE.
8. TERMINAL POSITIONS ARE SHOWN FOR REFERENCE ONLY.
9. FORMED LEADS SHALL BE PLANAR WITH RESPECT TO ONE ANOTHER WITHIN 0.076mm AT SEATING PLANE.
10. THE LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND AN ADJACENT LEAD TO BE 0.10MM FOR 0.65MM PITCH, 0.08MM FOR 0.50MM PITCH AND 0.07MM FOR 0.40MM PITCH PACKAGES. SEE DETAIL 'B' AND SECTION "C-C".
11. SECTION "C-C" TO BE DETERMINED AT 0.10 TO 0.25 MM FROM THE LEAD TIP.
12. THIS PART IS COMPLIANT WITH JEDEC SPECIFICATION MO-153, VARIATION EDT.
13. DIMENSIONS "P" AND "P1" ARE THERMALLY ENHANCED VARIATIONS. VALUES SHOWN ARE MAXIMUM SIZE OF EXPOSED PAD WITHIN LEAD COUNT AND BODY SIZE. END USER SHOULD VERIFY AVAILABLE SIZE OF EXPOSED PAD FOR SPECIFIC DEVICE APPLICATION.
14. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC# 10-0131
15. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbfREE (+) PKG. CODES.
16. PKG CODE: U48ER-1

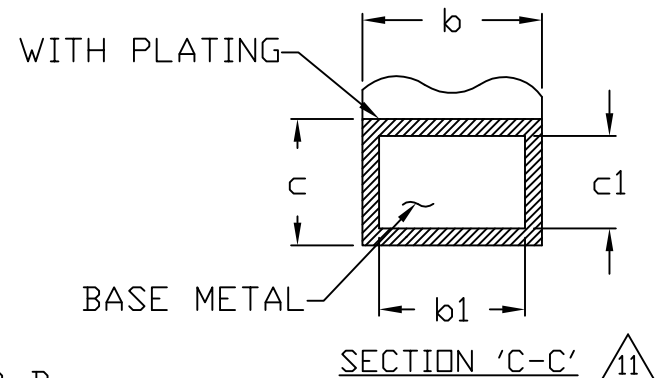
S <sub>y</sub> M <sub>B</sub> D <sub>L</sub>	COMMON DIMENSIONS			N <sub>D</sub> T <sub>E</sub>
	MIN.	NOM.	MAX.	
A			1.10	
A <sub>1</sub>	0.05		0.15	
A <sub>2</sub>	0.80	1.00	1.05	
ααα	0.10			
b	0.17	-	0.27	9
b <sub>1</sub>	0.17	0.20	0.23	
bbb	0.08			
c	0.09	-	0.20	
c <sub>1</sub>	0.09	0.127	0.16	
D	12.40	12.50	12.60	5
E	6.00	6.10	6.20	5
e	0.50 BSC			
H	8.10 BSC			
L	0.50	0.60	0.75	6
P			8.74	13
P <sub>1</sub>			4.42	13
α	0°		8°	



EVEN LEAD SIDES  
TOPVIEW



ODD LEAD SIDES  
TOPVIEW



**MAXIM**

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