



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	-	-	1.10	-	-	0.043
A1	0.05	-	0.15	0.002	-	0.006
A2	0.85	0.90	0.95	0.033	0.035	0.037
b	0.13	-	0.23	0.005	-	0.009
D	9.60	9.70	9.80	0.378	0.382	0.386
E	6.40 BSC			0.252 BSC		
E1	4.30	4.40	4.50	0.169	0.173	0.177
e	0.40 BSC			0.016 BSC		
N	48 PINS			48 PINS		
b	0.13	-	0.23	0.005	-	0.009
b1	0.13	0.16	0.19	0.005	0.006	0.007
c	0.09	-	0.20	0.004	-	0.008
c1	0.09	0.13	0.16	0.004	0.005	0.006
L	0.50	0.60	0.70	0.020	0.024	0.028
L1	1.00 REF			0.039 REF		
q1	14° REF			14° REF		
q2	0°	-	8°	0°	-	8°

#### NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- N IS THE TOTAL NUMBER OF TERMINALS.
- DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5-2009.
- THIS PART IS COMPLIANT WITH JEDEC SPECIFICATION MO-153.
- 'D' AND 'E1' ARE REFERENCE DATUM AND DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE BOTTOM PARTING LINE.
- MOLD FLASH OR PROTRUSIONS NOT TO EXCEED 0.15MM ON D SIDE, AND 0.25MM ON E SIDE.
- THE LEAD TIPS MUST LIE WITHIN A SPECIFIED ZONE. THIS TOLERANCE ZONE IS DEFINED BY TWO PARALLEL PLANES. ONE PLANE IS THE SEATING PLANE, DATUM (-C-), THE OTHER PLANE IS AT THE SPECIFIED DISTANCE FROM (-C-) IN THE DIRECTION INDICATED.
- THE LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.07MM TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADII OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND AN ADJACENT LEAD SHALL BE 0.07MM.
- FORMED LEADS SHALL BE PLANAR WITH RESPECT TO ONE ANOTHER WITHIN 0.076MM AT SEATING PLANE.
- SECTION 'B-B' TO BE DETERMINED AT 0.10 TO 0.25MM FROM THE LEAD TIP.
- DATUMS A AND B TO BE DETERMINED AT DATUM PLANE H.
- DATUM PLANE H LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
- MARKING SHOWN IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
- MATERIAL MUST BE COMPLIANT WITH MAXIM SPECIFICATION 10-0131 FOR SUBSTANCE CONTENT, MUST BE EU ROHS COMPLIANT WITHOUT EXEMPTION AND PB-FREE.
- ALL DIMENSIONS APPLY TO PbFREE (+) PKG. CODE ONLY.
- PACKAGE CODE: U48+2.



TITLE:  
PACKAGE OUTLINE, 48L TSSOP  
4.40mm BODY

APPROVAL

DOCUMENT CONTROL NO.

21-1077

REV.

A

1/1

-DRAWING NOT TO SCALE-

DETAIL A