



NOTE :

1. CONTROLLING DIMENSION : inch
2. LEAD FRAME MATERIAL : COPPER 194
3. DIMENSION "D" DOES NOT INCLUDE MOLD FLASH, TIE BAR BURRS AND GATE BURRS. MOLD FLASH, TIE BAR BURRS AND GATE BURRS SHALL NOT EXCEED 0.006"[0.15mm] PER END DIMENSION "E1" DOES NOT INCLUDE INTERLEAD FLASH. INTERLEAD FLASH SHALL NOT EXCEED 0.010"[0.25mm] PER SIDE.
4. DIMENSION "b" DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.003"[0.08mm] TOTAL IN EXCESS OF THE "b" DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD TO BE 0.0028"[0.07mm]
5. TOLERANCE : ± 0.010 "[0.25mm] UNLESS OTHERWISE SPECIFIED.
6. OTHERWISE DIMENSION FOLLOW ACCEPTABLE SPEC.
7. REFERENCE DOCUMENT : JEDEC SPEC MS-012

SYMBOLS	DIMENSIONS IN MILLIMETERS			DIMENSIONS IN INCHES		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	1.47	---	1.73	0.058	---	0.068
A1	0.10	---	0.25	0.004	---	0.010
A2	---	1.45	---	---	0.057	---
b	0.33	0.41	0.51	0.013	0.016	0.020
c	---	0.20 REF.	---	---	0.008 REF.	---
D	9.80	9.91	10.01	0.386	0.390	0.394
E	5.80	6.00	6.20	0.228	0.236	0.244
E1	3.80	3.90	4.00	0.150	0.154	0.157
e	---	1.27	---	---	0.050	---
L	0.40	0.71	1.27	0.016	0.028	0.050
θ	0°	---	8°	0°	---	8°
y	---	---	0.076	---	---	0.003

EXPOSED PAD DIMENSION (inch)							
PAD OPTION	SIZE	E2			D1		
		MIN	NOM	MAX	MIN	NOM	MAX
A)	90x110mil	0.065	---	---	0.085	---	---

CUSTOMER :		LINGSEN 5-1 NAN 2ND ROAD T.E.P.Z PRECISION IND., LTD TAICHUNG, TAIWAN R. O. C		
APPROVED BY	DATE	TITLE: 16L NARROW BODY SMALL OUTLINE PACKAGE DRAWING FOR EXPOSED PAD STRUCTURE (FOR MATRIX L/F)		
DRAW BY: <i>Miki Lin</i>	10/13/16	DWG. NO. PO-SOP-042		
CHECK BY: <i>Terence Lin</i>	10/14/16	REV. 2		
APPROVAL: <i>Terence Lin</i>	10/14/16	UNIT : inch		
APPROVAL: <i>Andy Yang</i>	10/17/16	SCALE : 12/1		
		SHEET 1 OF 1		