



- 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.

SYMBOLS	DIMENSIONS IN MILLIMETERS			DIMENSIONS IN INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.45	—	1.70	0.057	—	0.067
A1	0.00	—	0.15	0.000	—	0.006
A2	—	1.45	—	—	0.057	—
b	0.33	0.41	0.51	0.013	0.016	0.020
C	0.19	0.20	0.25	0.0075	0.008	0.0098
D	4.80	4.85	4.95	0.189	0.191	0.195
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
y	—	—	0.076	—	—	0.003
θ	0°	—	8°	0°	—	8°

PAD SIZE	EXPOSED PAD DIMENSION (inch)					
	D2			E2		
OPTION	MIN	NOM	MAX	MIN	NOM	MAX
A.)95x130mil	0.105	—	—	0.070	—	—
B.)90x90mil	0.065	—	—	0.065	—	—

CUSTOMER : **LINGSEN** 5-1 NAN 2ND ROAD T.E.P.Z
PRECISION IND; LTD TAICHUNG, TAIWAN R. O. C

APPROVED BY: *Sandy Sue* DATE: 09/08/11
DRAW BY: *Sandy Sue* DATE: 09/08/11
CHECK BY: *Allen Chen* DATE: 09/08/11
APPROVAL: *Parker Chen* DATE: 09/08/11
APPROVAL: *Andy Yang* DATE: 09/09/11

TITLE: 8L NARROW BODY SMALL OUTLINE PACKAGE DRAWING FOR EXPOSED PAD STRUCTURE (FOR MATRIX L/F)

DWG. NO. PO-SOP-039 REV. 3
UNIT : inch SCALE : 15/1 SHEET 1 OF 1