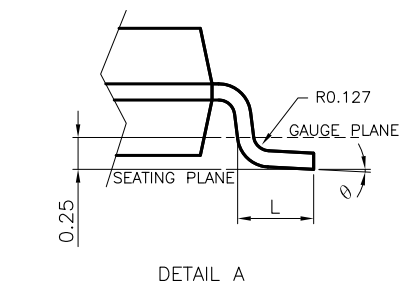
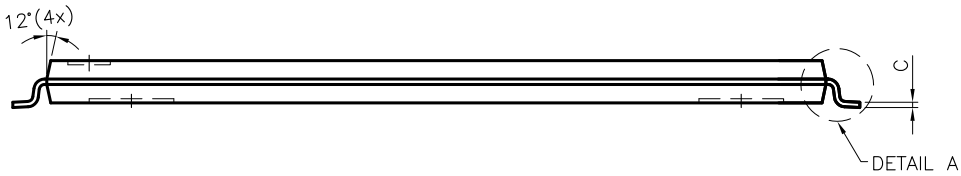


NOTE :

1. CONTROLLING DIMENSION : mm
2. LEAD FRAME MATERIAL : COPPER C7025 1/2H
3. DIMENSION "E" 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 "D1" 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 : ±0.008"[0.20mm] UNLESS OTHERWISE SPECIFIED.
6. OTHERWISE DIMENSION FOLLOW ACCEPTABLE SPEC.
7. REFERENCE DOCUMENT : JEDEC SPEC MO-142 DD
8. BOTTOM E-PIN INDENT IN MARKED AS BELOW :



SYMBOLS	DIMENSIONS IN MILLIMETERS			DIMENSIONS IN INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	—	—	1.20	—	—	0.047
A1	0.05	—	0.15	0.002	—	0.006
A2	0.95	1.00	1.05	0.037	0.039	0.041
b	0.17	0.22	0.27	0.0067	0.0087	0.0106
C	0.10	—	0.21	0.004	—	0.0083
D	19.80	20.00	20.20	0.780	0.787	0.795
D1	18.30	18.40	18.50	0.720	0.724	0.728
E	11.90	12.00	12.10	0.468	0.472	0.476
e	—	0.50	—	—	0.0197	—
L	0.50	0.60	0.70	0.020	0.024	0.028
y	0.00	—	0.076	0.000	—	0.003
θ	0°	—	5°	0°	—	5°

CUSTOMER :		LINGSEN 5-1 NAN 2ND ROAD T.E.P.Z PRECISION IND., LTD. TAICHUNG, TAIWAN. R. O. C	
APPROVED BY	DATE	TITLE:	
DRAW BY: <i>Sandy Sue</i>	05/22/03	48L TSOP TYPE I PACKAGE OUTLINE DRAWING (12x20 mm)	
CHECK BY: <i>Tony Lee</i>	05/22/2003	DWG. NO.	PO-TSOP1-003
APPROVAL: <i>Parker Chen</i>	05/22/03	REV.	3
APPROVAL: <i>Andy Yang</i>	05/22/03	UNIT :	mm
		SCALE :	6/1
		SHEET	1 OF 1

