



NOTE :

1. CONTROLLING DIMENSION : INCH
2. LEAD FRAME MATERIAL : COPPER 151
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 0.005"[0.127mm] TOTAL IN EXCEED 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. BOTTOM E-PIN INDENT ARE MARKED AS BELOW:



| SYMBOLS | DIMENSIONS IN MILLIMETERS | | | DIMENSIONS IN INCHES | | |
|---------|---------------------------|-------|-------|----------------------|--------|-------|
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 2.36 | 2.49 | 2.64 | 0.093 | 0.098 | 0.104 |
| A1 | 0.10 | — | 0.30 | 0.004 | — | 0.012 |
| A2 | — | 2.34 | — | — | 0.092 | — |
| b | 0.30 | 0.40 | 0.50 | 0.012 | 0.016 | 0.020 |
| C | 0.23 | 0.25 | 0.30 | 0.009 | 0.010 | 0.012 |
| D | 17.70 | 17.91 | 18.11 | 0.697 | 0.705 | 0.713 |
| E | 10.01 | 10.31 | 10.64 | 0.394 | 0.406 | 0.419 |
| E1 | 7.39 | 7.49 | 7.59 | 0.291 | 0.295 | 0.299 |
| e | — | 0.80 | — | — | 0.0315 | — |
| F | 5.05 | 5.15 | 5.25 | 0.199 | 0.203 | 0.207 |
| L | 0.38 | 0.81 | 1.27 | 0.015 | 0.032 | 0.050 |
| ø | 0° | — | 10° | 0° | — | 10° |
| y | — | — | 0.08 | — | — | 0.003 |



X : A - H

Y : 1 - 12

CUSTOMER :

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

APPROVED BY

DATE

TITLE:
28L HSSOP PACKAGE OUTLINE
DRAWING

DRAW BY:
Sandy Sue 11/27/'01

CHECK BY:
Leo Chen 11/27/'01

APPROVAL:
Dennis Liu 12/03/'01

APPROVAL:
Dennis Liu 12/03/'01

DWG. NO. PO-HSSOP-001 REV. 3

UNIT : INCH SCALE : 8/1 SHEET 1 OF 1