



-DRAWING NOT TO SCALE-

| | | | |
|--|---------------------------------|-----------|-----|
| MAXIM | | | |
| TITLE: PACKAGE OUTLINE, 12, 16L QFN, 3x3x0.85 mm | | | |
| APPROVAL | DOCUMENT CONTROL NO. 21-0102 | REV. H | 1/2 |

| COMMON DIMENSIONS | | | | | | |
|-------------------|----------|------|------|----------|------|------|
| PKG | 12L 3x3 | | | 16L 3x3 | | |
| SYMBOL | MIN. | NOM. | MAX. | MIN. | NOM. | MAX. |
| A | 0.80 | 0.85 | 0.90 | 0.80 | 0.85 | 0.90 |
| A1 | 0.00 | 0.01 | 0.05 | 0.00 | 0.01 | 0.05 |
| A2 | 0.00 | 0.65 | 1.00 | 0.00 | 0.65 | 1.00 |
| A3 | 0.20 REF | | | 0.20 REF | | |
| b | 0.18 | 0.23 | 0.30 | 0.18 | 0.23 | 0.30 |
| D | 2.90 | 3.00 | 3.10 | 2.90 | 3.00 | 3.10 |
| D1 | 2.75 BSC | | | 2.75 BSC | | |
| E | 2.90 | 3.00 | 3.10 | 2.90 | 3.00 | 3.10 |
| E1 | 2.75 BSC | | | 2.75 BSC | | |
| e | 0.50 BSC | | | 0.50 BSC | | |
| k | 0.25 | — | — | 0.25 | — | — |
| L | 0.35 | 0.55 | 0.75 | 0.30 | 0.40 | 0.50 |
| N | 12 | | | 16 | | |
| ND | 3 | | | 4 | | |
| NE | 3 | | | 4 | | |
| P | 0.00 | 0.42 | 0.60 | 0.00 | 0.42 | 0.60 |
| θ | 0° | | 12° | 0° | | 12° |

| EXPOSED PAD VARIATIONS | | | | | | |
|------------------------|------|------|------|------|------|------|
| PKG. CODES | D2 | | | E2 | | |
| | MIN. | NOM. | MAX. | MIN. | NOM. | MAX. |
| G1233-1 | 0.95 | 1.10 | 1.25 | 0.95 | 1.10 | 1.25 |
| G1633-2 | 0.95 | 1.10 | 1.25 | 0.95 | 1.10 | 1.25 |

NOTES:

1. DIE THICKNESS ALLOWABLE IS 0.305mm MAXIMUM (.012 INCHES MAXIMUM).
2. DIMENSIONING & TOLERANCES CONFORM TO ASME Y14.5M. – 1994.
3. N IS THE NUMBER OF TERMINALS.
Nd IS THE NUMBER OF TERMINALS IN X-DIRECTION &
Ne IS THE NUMBER OF TERMINALS IN Y-DIRECTION.
4. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.20 AND 0.25mm FROM TERMINAL TIP.
5. THE PIN #1 IDENTIFIER MUST EXIST ON THE TOP SURFACE OF THE PACKAGE BY USING INDENTATION MARK OR INK/LASER MARKED. DETAILS OF PIN #1 IDENTIFIER IS OPTIONAL, BUT MUST BE LOCATED WITHIN ZONE INDICATED.
6. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
7. ALL DIMENSIONS ARE IN MILLIMETERS.
8. PACKAGE WARPAGE MAX 0.05mm.
9. APPLIED FOR EXPOSED PAD AND TERMINALS. EXCLUDE EMBEDDING PART OF EXPOSED PAD FROM MEASURING.
10. MEETS JEDEC MO220.
11. THIS PACKAGE OUTLINE APPLIES TO PUNCHED QFN (STEPPED SIDES).
12. MARKING SHOWN IF FOR PACKAGE ORIENTATION REFERENCE ONLY.
13. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbFREE (+) PKG. CODES.



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