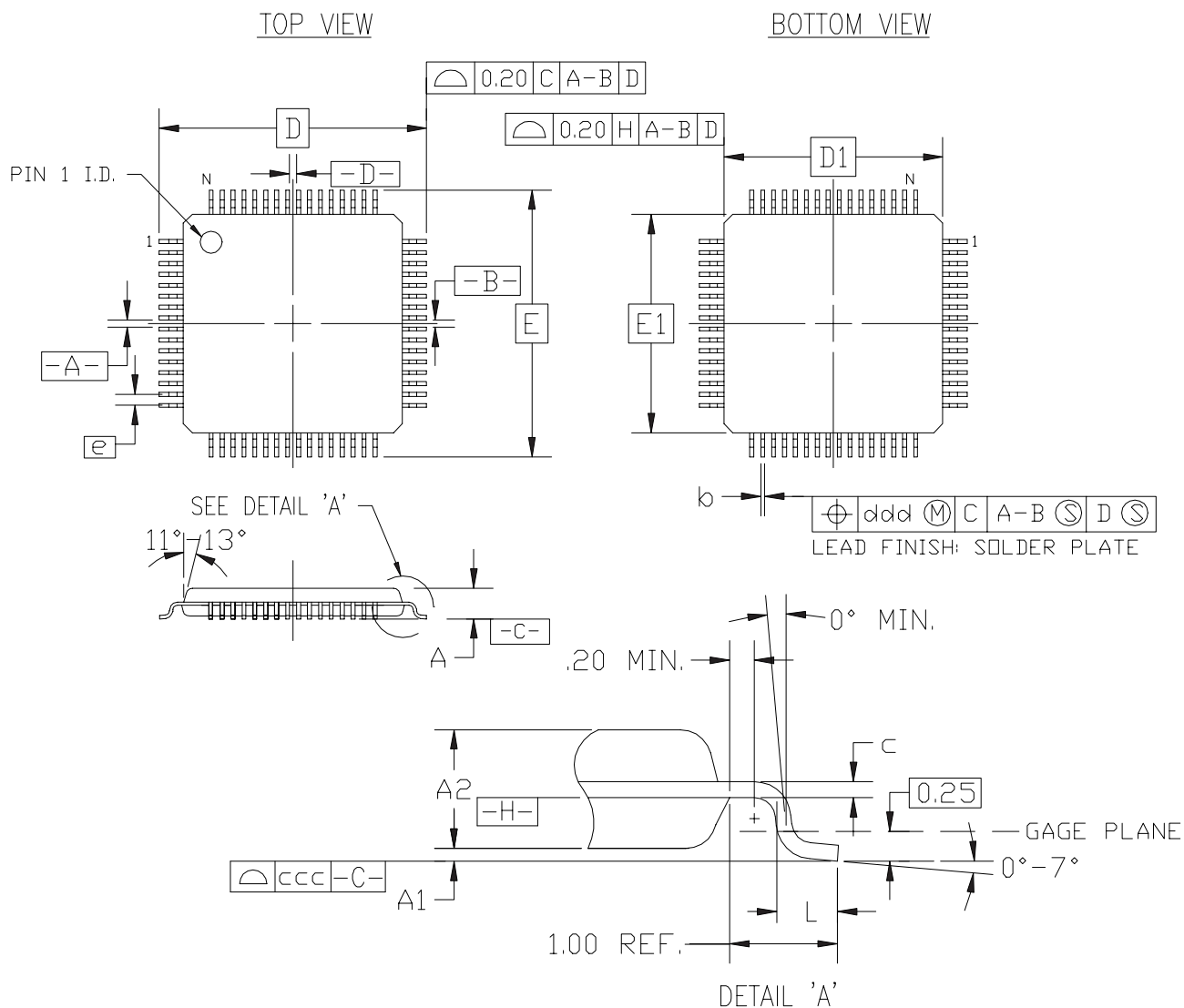


## VQFP Packages - VQ44, VQ64, VQ100



| SYMBOL                         | VQ44              |                   |      | VQ64              |                   |      | VQ100             |                   |      |
|--------------------------------|-------------------|-------------------|------|-------------------|-------------------|------|-------------------|-------------------|------|
|                                | MILLIMETERS       |                   |      | MILLIMETERS       |                   |      | MILLIMETERS       |                   |      |
|                                | MIN.              | NOM.              | MAX. | MIN.              | NOM.              | MAX. | MIN.              | NOM.              | MAX. |
| A                              | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 1.20 | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 1.20 | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 1.20 |
| A <sub>1</sub>                 | 0.05              | $\sqrt{\text{ }}$ | 0.15 | 0.05              | 0.10              | 0.15 | 0.05              | 0.10              | 0.15 |
| A <sub>2</sub>                 | 0.95              | 1.00              | 1.05 | 0.95              | 1.00              | 1.05 | 0.95              | 1.00              | 1.05 |
| D/E                            | 12.00 BSC.        |                   |      | 12.00 BSC.        |                   |      | 16.00 BSC.        |                   |      |
| D <sub>1</sub> /E <sub>1</sub> | 10.00 BSC.        |                   |      | 10.00 BSC.        |                   |      | 14.00 BSC.        |                   |      |
| b                              | 0.30              | 0.37              | 0.45 | 0.17              | 0.22              | 0.27 | 0.17              | 0.22              | 0.27 |
| c                              | 0.09              | $\sqrt{\text{ }}$ | 0.20 | 0.09              | $\sqrt{\text{ }}$ | 0.20 | 0.09              | $\sqrt{\text{ }}$ | 0.20 |
| e                              | 0.80 BSC.         |                   |      | 0.50 BSC.         |                   |      | 0.50 BSC.         |                   |      |
| L                              | 0.45              | 0.60              | 0.75 | 0.45              | 0.60              | 0.75 | 0.45              | 0.60              | 0.75 |
| ccc                            | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 0.10 | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 0.08 | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 0.08 |
| ddd                            | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 0.20 | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 0.08 | $\sqrt{\text{ }}$ | $\sqrt{\text{ }}$ | 0.08 |
| N                              | 44                |                   |      | 64                |                   |      | 100               |                   |      |
| REF.                           | JEDEC MS-026-ACB  |                   |      | JEDEC MS-026-ACD  |                   |      | JEDEC MS-026-AED  |                   |      |

### NOTES:

1. ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1982.
2. DIMENSIONS D<sub>1</sub> AND E<sub>1</sub> DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION SHALL NOT EXCEED 0.25mm PER SIDE.
3. THE TOP OF PACKAGE MAY BE SMALLER THAN THE BOTTOM OF PACKAGE BY 0.15mm.

44, 64, 100-PIN PLASTIC VERY THIN QFP (VQ44, VQ64, VQ100)