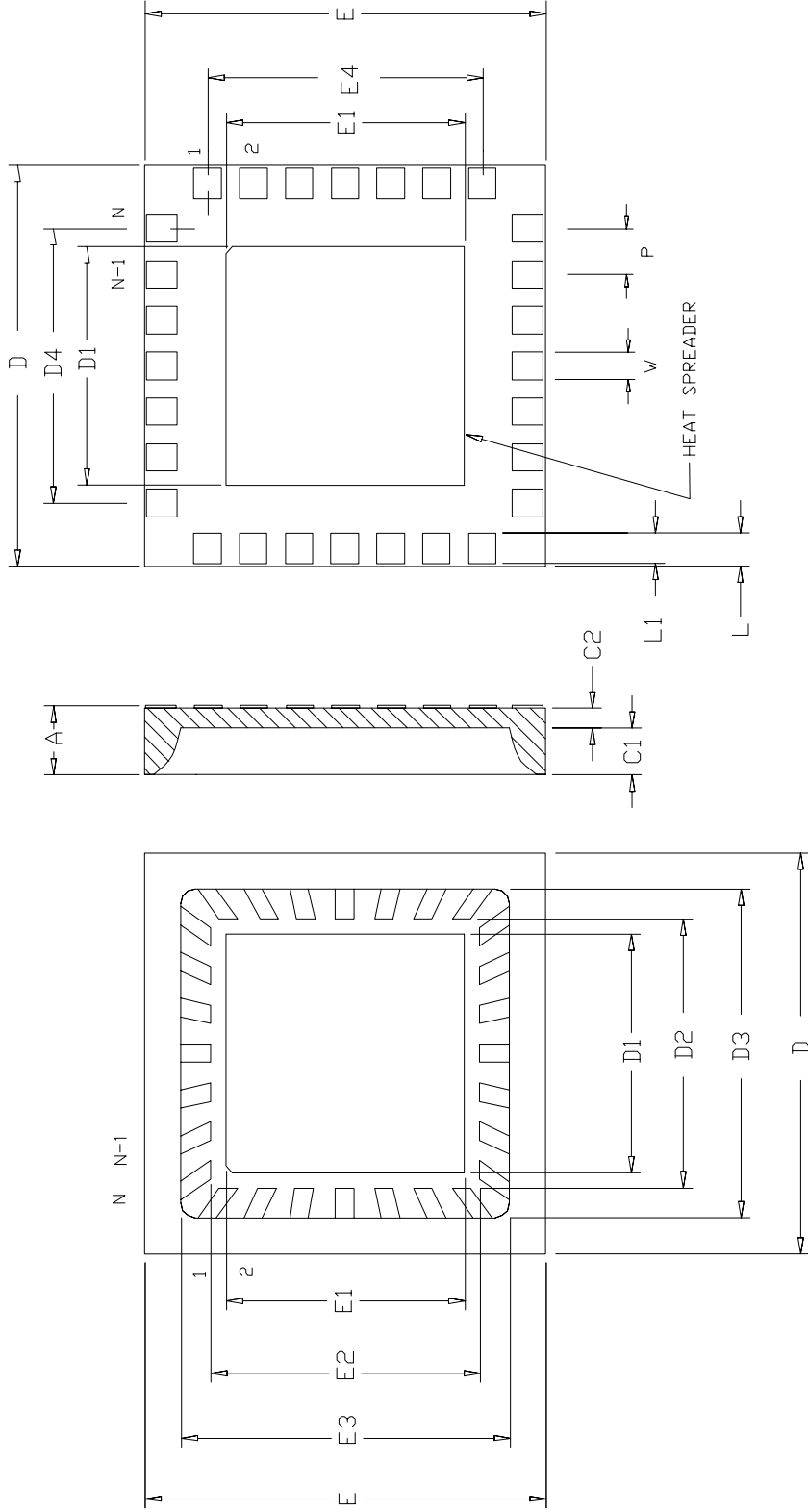


TOP VIEW

SIDE VIEW

BOTTOM VIEW



TOLERANCES UNLESS NOTED:
 X.XXX ±
 X.XXX ±
 X.XXXX ±
 ANGLES ±
 ALL DIMENSIONS ARE IN:
 INCHES MILLIMETERS

THIRD ANGLE PROJECTION:

| APPROVALS | | DATE |
|-----------|----|----------|
| DRAWN | TA | 08/01/09 |
| ENG | | |
| MFG | | |
| QA | | |
| CUST | | |
| REVISED | | |

| | |
|---------------------------|--------------|
| | |
| TITLE OUTLINE DRAWING | |
| A-QFN SERIES - AIR CAVITY | |
| SCALE | SIZE |
| NONE | A |
| DRAWING NO. | REV |
| 400010 | A |
| DO NOT SCALE DRAWING | SHEET 1 OF 2 |

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SQUARE PACKAGE DIMENSION TABLE

PITCH 0.5MM - 0.8MM

| N | P | D E | D1 E1 | D2 E2 | D3 E3 | D4 E4 | L | L1 | W | Dwg Nbr. |
|----|------|--------|----------|----------|----------|----------|-----|------|-------|-------------|
| 8 | 0.65 | 3 | 1 | 1.3 | 2 | 0.65 | 0.5 | 0.45 | 0.325 | 460810 |
| 12 | 0.5 | 3 | 1 | 1.3 | 2 | 1 | 0.5 | 0.45 | 0.25 | 451210 |
| 12 | 0.65 | 4 | 2 | 2.3 | 3 | 1.3 | 0.5 | 0.45 | 0.325 | 461210 |
| 12 | 0.8 | 4 | 2 | 2.3 | 3 | 1.6 | 0.5 | 0.45 | 0.4 | 481210 |
| 16 | 0.5 | 3 | 1 | 1.3 | 2 | 1.5 | 0.5 | 0.45 | 0.25 | 451610 |
| 16 | 0.65 | 4 | 2 | 2.3 | 3 | 1.95 | 0.5 | 0.45 | 0.325 | 461610 |
| 16 | 0.8 | 5 | 3 | 3.3 | 4 | 2.4 | 0.5 | 0.45 | 0.4 | 481610 |
| 20 | 0.5 | 4 | 2 | 2.3 | 3 | 2.0 | 0.5 | 0.45 | 0.25 | 452010 |
| 20 | 0.65 | 5 | 3 | 3.3 | 4 | 2.6 | 0.5 | 0.45 | 0.325 | 462010 |
| 20 | 0.8 | 5 | 3 | 3.3 | 4 | 3.2 | 0.5 | 0.45 | 0.4 | 482010 |
| 24 | 0.5 | 4 | 2 | 2.3 | 3 | 2.5 | 0.5 | 0.45 | 0.25 | 452410 |
| 24 | 0.65 | 5 | 3 | 3.3 | 4 | 3.25 | 0.5 | 0.45 | 0.325 | 462410 |
| 24 | 0.8 | 6 | 4 | 4.3 | 5 | 4.0 | 0.5 | 0.45 | 0.4 | 482410 |
| 28 | 0.5 | 5 | 3 | 3.3 | 4 | 3.0 | 0.5 | 0.45 | 0.25 | 452810 |
| 28 | 0.65 | 6 | 4 | 4.3 | 5 | 3.9 | 0.5 | 0.45 | 0.325 | 462810 |
| 28 | 0.8 | 7 | 5 | 5.3 | 6 | 4.8 | 0.5 | 0.45 | 0.4 | 482810 |
| 32 | 0.5 | 5 | 3 | 3.3 | 4 | 3.5 | 0.5 | 0.45 | 0.25 | 453210 |
| 32 | 0.65 | 7 | 5 | 5.3 | 6 | 4.55 | 0.5 | 0.45 | 0.325 | 463210 |
| 32 | 0.8 | 8 | 6 | 6.3 | 7 | 5.6 | 0.5 | 0.45 | 0.4 | 483210 |
| 36 | 0.5 | 6 | 4 | 4.3 | 5 | 4.0 | 0.5 | 0.45 | 0.25 | 453610 |
| 40 | 0.5 | 6 | 4 | 4.3 | 5 | 4.5 | 0.5 | 0.45 | 0.25 | 454010 |
| 40 | 0.65 | 8 | 6 | 6.3 | 7 | 5.85 | 0.5 | 0.45 | 0.325 | 464010 |
| 44 | 0.5 | 7 | 5 | 5.3 | 6 | 5.0 | 0.5 | 0.45 | 0.25 | 454410 |
| 44 | 0.65 | 8 | 6 | 6.3 | 7 | 6.5 | 0.5 | 0.45 | 0.325 | 464410 |
| 48 | 0.5 | 7 | 5 | 5.3 | 6 | 5.5 | 0.5 | 0.45 | 0.25 | 454810 |
| 52 | 0.5 | 8 | 6 | 6.3 | 7 | 6.0 | 0.5 | 0.45 | 0.25 | 455210 |
| 56 | 0.5 | 8 | 6 | 6.3 | 7 | 6.5 | 0.5 | 0.45 | 0.25 | 455610 |
| 64 | 0.5 | 9 | 7 | 7.3 | 8 | 7.5 | 0.5 | 0.45 | 0.25 | 456410 |
| 68 | 0.5 | 10 | 8 | 8.3 | 9 | 8.0 | 0.5 | 0.45 | 0.25 | 456810 |
| 72 | 0.5 | 10 | 8 | 8.3 | 9 | 8.5 | 0.5 | 0.45 | 0.25 | 457210 |
| 80 | 0.5 | 12 | 10 | 10.3 | 11 | 9.5 | 0.5 | 0.45 | 0.25 | 458010 |

DIMENSIONS ARE IN MM

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SQUARE PACKAGE DIMENSION TABLE

PITCH 0.4MM

| N | P | D E | D1 E1 | D2 E2 | D3 E3 | D4 E4 | L | L1 | W | Dwg Nbr. |
|-----|------|--------|----------|----------|----------|----------|------|------|------|-------------|
| 20 | 0.40 | 3 | 1 | 1.3 | 2 | 1.6 | 0.40 | 0.35 | 0.20 | 442010 |
| 28 | 0.40 | 4 | 2 | 2.3 | 3 | 2.4 | 0.40 | 0.35 | 0.20 | 442810 |
| 36 | 0.40 | 5 | 3 | 3.3 | 3 | 3.2 | 0.40 | 0.35 | 0.20 | 443610 |
| 40 | 0.40 | 5 | 3 | 3.3 | 3 | 3.6 | 0.40 | 0.35 | 0.20 | 444010 |
| 48 | 0.40 | 6 | 4 | 4.3 | 5 | 4.4 | 0.40 | 0.35 | 0.20 | 444810 |
| 56 | 0.40 | 7 | 5 | 5.3 | 6 | 5.2 | 0.40 | 0.35 | 0.20 | 445610 |
| 64 | 0.40 | 8 | 6 | 6.3 | 7 | 6.0 | 0.40 | 0.35 | 0.20 | 446410 |
| 68 | 0.40 | 8 | 6 | 6.3 | 7 | 6.4 | 0.40 | 0.35 | 0.20 | 446810 |
| 72 | 0.40 | 9 | 7 | 7.3 | 8 | 6.8 | 0.40 | 0.35 | 0.20 | 447210 |
| 76 | 0.40 | 9 | 7 | 7.3 | 8 | 7.2 | 0.40 | 0.35 | 0.20 | 447610 |
| 88 | 0.40 | 10 | 8 | 8.3 | 9 | 8.4 | 0.40 | 0.35 | 0.20 | 448810 |
| 100 | 0.40 | 12 | 10 | 10.3 | 11 | 9.6 | 0.40 | 0.35 | 0.20 | 449910 |

HEIGHT TABLE

| | C1 | C2 | A |
|-------------|----------|----------|----------|
| STANDARD | 0.635 | 0.203 | 0.90 |
| LOW PROFILE | 0.38 | 0.203 | 0.65 |
| TOLERANCE | +/- 0.05 | +/- 0.05 | +/- 0.10 |

CHECK AVAILABILITY OF OTHER SIZES

| | | | | | |
|--------------------------|---|---------------------------|------|--------------|-----|
| TOLERANCES UNLESS NOTED: | | APPROVALS | | DATE | |
| X.XX | ± | DRAWN | TA | 08/01/09 | |
| X.XXX | ± | ENG | | | |
| X.XXXX | ± | MFG | | | |
| ANGLES | ± | QA | | | |
| ALL DIMENSIONS ARE IN: | | TITLE | | | |
| □ INCHES □ MILLIMETERS | | A-QFN SERIES - AIR CAVITY | | | |
| THIRD ANGLE PROJECTION: | | SCALE | SIZE | DRAWING NO. | REV |
| | | NONE | A | 400010 | A |
| DO NOT SCALE DRAWING | | | | SHEET 2 OF 2 | |

