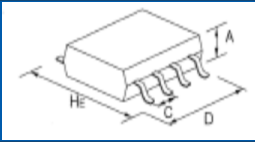
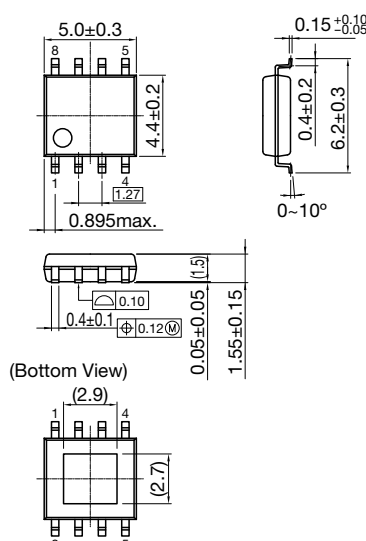
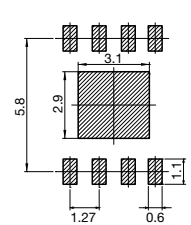
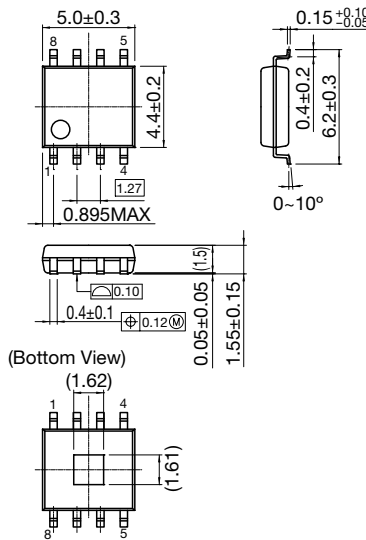
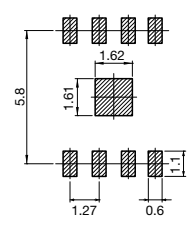


パッケージ一覧表



| パッケージタイプ | ピン数 | パッケージ名 | パッケージサイズ (mm) | | | ピンピッチ (mm) |
|------------|----------|-----------|---------------|-------|-------|------------|
| | | | He | D | A | C |
| リードタイプ | 3 | TO-92A | 5.40 | 3.80 | 7.50 | 2.50 |
| フラットリードタイプ | 6 | SON-6A | 3.00 | 1.60 | 0.80 | 0.50 |
| | 6 | SON-6B | 3.00 | 1.60 | 0.80 | 0.50 |
| | 6 | SON-6C | 2.00 | 1.60 | 0.55 | 0.50 |
| | 6 | SON-6D | 3.00 | 2.90 | 0.80 | 0.95 |
| | 5 | SOT89-5A | 4.25 | 4.50 | 1.50 | 1.50 |
| ガルウイングタイプ | 4 | SC-82ABA | 2.10 | 2.00 | 0.95 | 1.30 |
| | 4 | SC-82ABB | 2.10 | 2.00 | 0.90 | 1.30 |
| | 6 | SC-88A | 2.10 | 2.00 | 0.90 | 0.65 |
| | 3 | SOT-23A | 2.80 | 2.90 | 1.15 | 1.90 |
| | 5 | SOT-25A | 2.80 | 2.90 | 1.15 | 0.95 |
| | 6 | SOT-26A | 2.80 | 2.90 | 1.15 | 0.95 |
| | 6 | SOT-26B | 2.80 | 2.90 | 1.15 | 0.95 |
| | 7 | SOP-7B | 6.20 | 5.00 | 1.55 | 1.27 |
| | 8 | SOP-8C | 6.20 | 5.20 | 1.55 | 1.27 |
| | 8 | SOP-8D | 6.20 | 5.00 | 1.55 | 1.27 |
| | 10 | SOP-10A | 6.20 | 5.00 | 1.55 | 1.00 |
| | 16 | SOP-16B | 6.20 | 10.20 | 1.55 | 1.27 |
| | 28 | SOP-28B | 9.90 | 17.60 | 1.85 | 1.27 |
| | 8 | SSOP-8A | 3.10 | 2.00 | 0.75 | 0.50 |
| | 24 | SSOP-24B | 7.80 | 10.20 | 1.90 | 0.80 |
| | 34 | SSOP-34A | 9.90 | 17.60 | 1.85 | 1.00 |
| | 36 | SSOP-36A | 7.80 | 15.00 | 1.90 | 0.80 |
| | 42 | SSOP-42A | 9.90 | 17.60 | 1.85 | 0.80 |
| | 16 | TSOP-16A | 6.40 | 5.00 | 1.10 | 0.65 |
| | 16 | TSOP-16B | 6.40 | 5.00 | 1.10 | 0.65 |
| | 16 | TSOP-16D | 6.40 | 5.00 | 1.10 | 0.65 |
| | 20 | TSOP-20A | 6.40 | 6.50 | 1.10 | 0.65 |
| | 20 | TSOP-20B | 6.40 | 6.50 | 1.10 | 0.65 |
| | 20 | TSOP-20D | 6.40 | 6.50 | 1.10 | 0.65 |
| | 20 | TSOP-20E | 6.40 | 6.50 | 1.10 | 0.65 |
| | 20 | TSOP-20F | 6.40 | 6.50 | 1.20 | 0.65 |
| | 8 | VSOP-8B | 4.00 | 2.90 | 1.30 | 0.65 |
| | 8 | VSOP-8C | 4.00 | 2.95 | 1.30 | 0.65 |
| | 8 | VSOP-8D | 4.00 | 2.80 | 1.30 | 0.65 |
| | 8 | HSOP-8A | 6.20 | 5.00 | 1.55 | 1.27 |
| | 8 | HSOP-8C | 6.20 | 5.00 | 1.55 | 1.27 |
| | 28 | HSOP-28A | 9.90 | 18.60 | 2.30 | 0.80 |
| | 28 | HSOP-28C | 9.90 | 17.60 | 1.90 | 0.80 |
| | 36 | HSOP-36A | 9.90 | 17.60 | 1.90 | 0.80 |
| | 64 | QFP-64E | 16.00 | 16.00 | 1.20 | 0.80 |
| | 80 | QFP-80D | 17.20 | 23.20 | 3.22 | 0.80 |
| | 100 | QFP-100A | 17.20 | 23.20 | 3.22 | 0.65 |
| | 3 | TO-252C | 9.90 | 6.60 | 2.30 | 2.30 |
| | 5 | TO-252-5A | 9.90 | 6.60 | 2.30 | 1.27 |
| | ノンリードタイプ | 4 | PLP-4A | 1.00 | 1.00 | 0.60 |
| 4 | | PLP-4B | 1.60 | 1.20 | 0.60 | 0.60 |
| 6 | | PLP-6A | 2.00 | 1.80 | 0.60 | 0.50 |
| 10 | | PLP-10A | 2.50 | 2.70 | 0.60 | 0.50 |
| 16 | | SQFN-16A | 3.00 | 3.00 | 0.75 | 0.50 |
| 32 | | SQFN-32A | 5.00 | 5.00 | 0.75 | 0.50 |
| 4 | | SSON-4B | 1.40 | 1.10 | 0.55 | 0.50 |
| 6 | | SSON-6A | 2.00 | 1.80 | 0.75 | 0.50 |
| 6 | | SSON-6E | 1.60 | 1.80 | 0.55 | 0.50 |
| 6 | | SSON-6J | 1.40 | 1.40 | 0.55 | 0.50 |
| 6 | | SSON-6L | 2.00 | 2.00 | 0.75 | 0.65 |
| 8 | | SSON-8B | 2.30 | 2.30 | 0.75 | 0.5 |
| 8 | | SSON-8C | 3.00 | 3.00 | 0.55 | 0.65 |
| 10 | | SSON-10A | 2.50 | 2.70 | 0.60 | 0.50 |
| 20 | | WLCSP-20A | 1.936 | 1.936 | 0.345 | 0.40 |
| 25 | | WLCSP-25A | 1.936 | 1.936 | 0.345 | 0.40 |
| 48 | | WLCSP-48A | 3.47 | 3.47 | 0.40 | 0.50 |

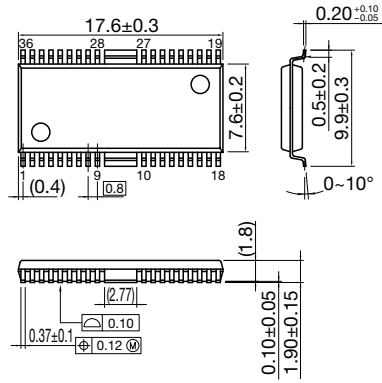
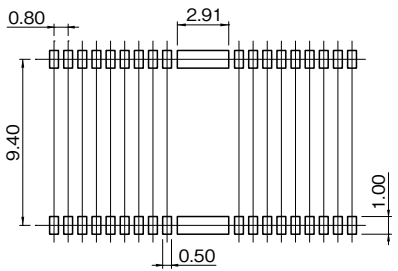
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|---|--|
| <p>HSOP-8A</p> |  <p>Top View: 5.0 ± 0.3, 4.4 ± 0.2, 0.895max., 1.27, 0.4, $0.15 \pm 0.10 / -0.05$, 0.4 ± 0.2, 6.2 ± 0.3, $0 \sim 10^\circ$</p> <p>Side View: 1.55 ± 0.15, 0.05 ± 0.05 (1.5), 0.4 ± 0.1, 0.10, $\phi 0.12$</p> <p>(Bottom View) (2.9), (2.7)</p> |  <p>Dimensions: 5.8, 2.9, 3.1, 1.27, 0.6, 1.1</p> |
| <p>HSOP-8C</p> |  <p>Top View: 5.0 ± 0.3, 4.4 ± 0.2, 0.895MAX, 1.27, 0.4, $0.15 \pm 0.10 / -0.05$, 0.4 ± 0.2, 6.2 ± 0.3, $0 \sim 10^\circ$</p> <p>Side View: 1.55 ± 0.15, 0.05 ± 0.05 (1.5), 0.4 ± 0.1, 0.10, $\phi 0.12$</p> <p>(Bottom View) (1.62), (1.61)</p> |  <p>Dimensions: 5.8, 1.62, 1.61, 1.27, 0.6, 1.1</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|---|--|
| <p>HSOP-28A</p> | <p>Top view dimensions: 18.6±0.3, 28, 22, 21, 15, 1.6max., 0.8, 7.5±0.2, 0.8, 8, 14.</p> <p>Side view dimensions: 0.15^{+0.10}/_{-0.05}, 0.5±0.2, 9.9±0.3, 0~10°.</p> <p>Detail view dimensions: (2.2), 0.1±0.05, 2.3±0.15, (5.15), 0.10, 0.35±0.05, φ0.12.</p> | <p>Land pattern dimensions: 0.5, 0.8, 5.15, 1.2, 9.1, 3.2.</p> |
| <p>HSOP-28C</p> | <p>Top view dimensions: 17.6±0.3, 28, 22, 21, 15, 1.1max., 0.8, 7.6±0.2, 0.8, 8, 14.</p> <p>Side view dimensions: 0.20^{+0.10}/_{-0.05}, 0.5±0.2, 9.9±0.3, 0~10°.</p> <p>Detail view dimensions: (1.8), 0.10±0.05, 1.90±0.15, (5.15), 0.10, 0.35±0.10, φ0.12.</p> | <p>Land pattern dimensions: 0.5, 0.8, 5.15, 1.2, 9.1, 3.2.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|---|---|
| <p>HSOP-36A</p> |  <p>Top view dimensions: 17.6±0.3, 7.6±0.2, 0.4, 0.8, 1, 9, 10, 18, 27, 28, 36.</p> <p>Side view dimensions: 0.20^{+0.10}/_{-0.05}, 0.5±0.2, 9.9±0.3, 0-10°.</p> <p>Detail view dimensions: 1.8, 0.10±0.05, 1.90±0.15, 0.37±0.1, 0.10, 0.12, 2.77.</p> |  <p>Land pattern dimensions: 0.80, 2.91, 9.40, 1.00, 0.50.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|---------------|---|--|
| <p>PLP-4A</p> | <p>Technical drawing of PLP-4A package showing top, side, and bottom views with dimensions:</p> <ul style="list-style-type: none"> Top View: 1.00±0.05 (width), 1.00±0.05 (height), pins 1, 2, 3, 4. Side View: 0.07MAX (height), 0.60MAX (length), 0.05 (lead thickness). Bottom View: 0.25±0.05 (width), 0.65 (width), 0.48±0.05 (width), 45° (angle), 0.32±0.05 (height), 0.07±0.05 (height), 0.25±0.05 (width), 0.05 (lead thickness). | <p>Recommended land pattern diagram for PLP-4A package showing dimensions: 0.44, 0.25, 0.18, 0.25, 0.55, 0.65, 0.57, 1.46.</p> |
| <p>PLP-4B</p> | <p>Technical drawing of PLP-4B package showing top, side, and bottom views with dimensions:</p> <ul style="list-style-type: none"> Top View: 1.20±0.05 (width), 1.60±0.05 (height), pins 1, 2, 3, 4. Side View: (0.07) (height), 0.6MAX (length), 0.05 (lead thickness). Bottom View: 0.60 (width), (1.0) (width), 0.7 (width), 0.20±0.05 (height), 0.30±0.05 (width), 0.05 (lead thickness). | <p>Recommended land pattern diagram for PLP-4B package showing dimensions: 0.45, 0.60, 0.70, 1.00, 2.10, 0.30.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|-------|--------|
| <p>PLP-6A</p> | | |
| <p>PLP-10A</p> | | |

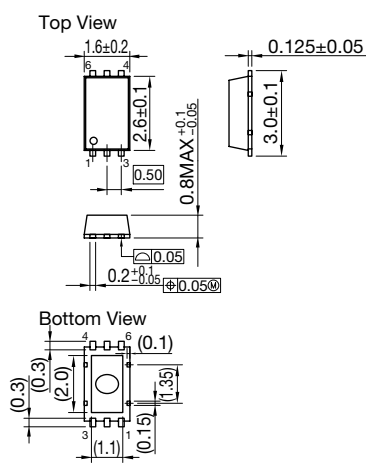
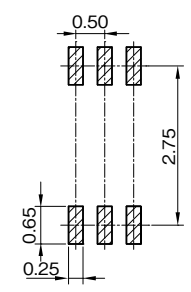
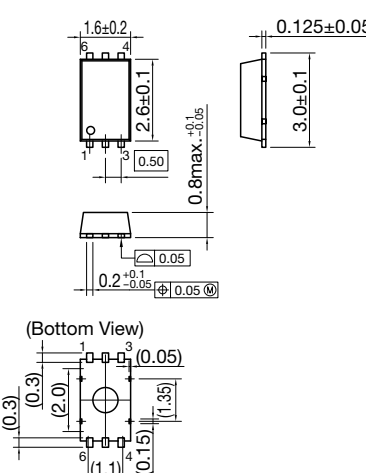
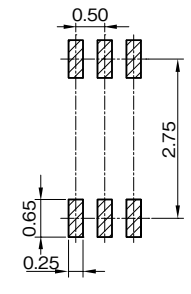
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|--|---|
| <p>QFP-64E</p> | <p>Technical drawing of the QFP-64E package. It includes a top view showing a square body with 64 pins (16 on each side). Dimensions include: body width 14.0±0.2, body height 14.0±0.2, total width 16.0±0.3, total height 16.0±0.3, and pin pitch 0.8. A detail view shows a pin height of 0.1±0.05 and a lead thickness of 0.37^{+0.10}/_{-0.07}. A side view shows a lead height of 0.6±0.2 and a lead angle of 0~10°.</p> | <p>Recommended land pattern diagram for the QFP-64E package. It shows a square footprint with a side length of 14.6. The pin pitch is 0.8. The distance from the center to the edge of the pin is 1.3. The land width is 0.5.</p> |
| <p>QFP-80D</p> | <p>Technical drawing of the QFP-80D package. It includes a top view showing a square body with 80 pins (20 on each side). Dimensions include: body width 14.0±0.2, body height 14.0±0.2, total width 23.2±0.3, total height 17.2±0.3, and pin pitch 0.8. A detail view shows a pin height of 0.35^{+0.15}/_{-0.10} and a lead thickness of 0.38±0.08. A side view shows a lead height of 0.8±0.20 and a lead angle of 0~10°.</p> | <p>Recommended land pattern diagram for the QFP-80D package. It shows a square footprint with a side length of 20.4. The pin pitch is 0.8. The distance from the center to the edge of the pin is 1.5. The land width is 0.5.</p> |

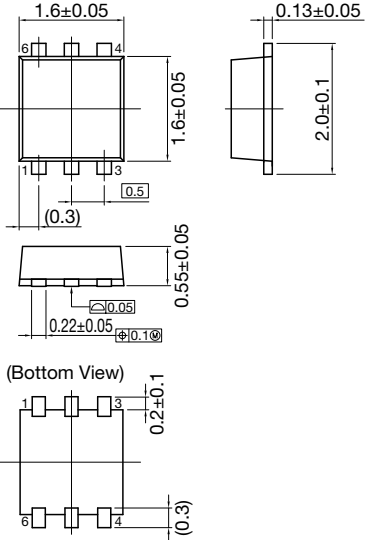
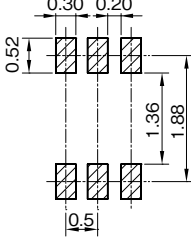
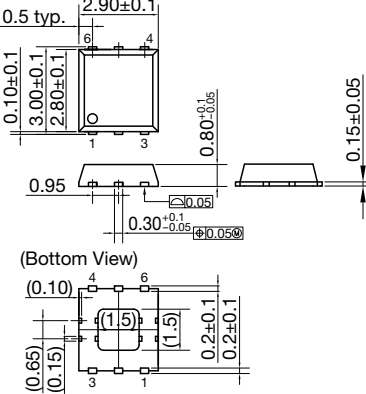
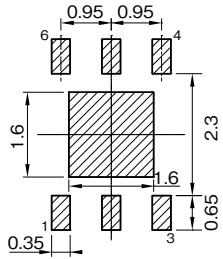
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|--|---|
| <p>QFP-100A</p> | <p>Technical drawing of the QFP-100A package. It includes a top view showing a square package with dimensions 20.0±0.2 mm and 23.2±0.3 mm. Pin counts are 100 on each side. Pin pitch is 0.65 mm. A detail view shows a pin height of 0.15^{+0.08}/_{-0.04} mm and a lead angle of 0-10°. A side view shows a package height of 3.22±0.18 mm and a lead thickness of 0.35^{+0.15}/_{-0.10} mm. Other dimensions include 0.65 mm, 0.30^{+0.10}/_{-0.08} mm, 0.10 mm, 0.13 mm, and 2.79 mm.</p> | <p>Recommended land pattern diagram for the QFP-100A package. It shows a square footprint with a side length of 20.6 mm. The pin pitch is 1.5 mm. The distance from the center of the package to the center of a pin is 14.6 mm. The pin diameter is 0.35 mm. The land diameter is 0.65 mm.</p> |
| <p>SC-82ABA</p> | <p>Technical drawing of the SC-82ABA package. It includes a top view showing a rectangular package with dimensions 2.0±0.1 mm and 1.3±0.2 mm. Pin counts are 4 on each long side. Pin pitch is 0.3 mm. A detail view shows a pin height of 0.125^{+0.100}/_{-0.025} mm and a lead thickness of 0.3 mm. A side view shows a package height of 2.1±0.3 mm and a lead thickness of 0.9 mm. Other dimensions include 0.3 mm, 0.4 mm, 0.15 mm, 0.3 mm, 0.4 mm, 0.10 mm, 0.10 mm, 0.05±0.05 mm, 0.95±0.15 mm, and 0.4^{+0.10}/_{-0.05} mm (0.4^{+0.10}/_{-0.05} mm).</p> | <p>Recommended land pattern diagram for the SC-82ABA package. It shows a rectangular footprint with dimensions 1.9 mm and 1.3 mm. The pin pitch is 0.3 mm. The pin diameter is 0.6 mm. The land diameter is 0.7 mm. The distance from the center of the package to the center of a pin is 0.8 mm.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|--------|---|---|
| SON-6A |  <p>Top View</p> <p>Bottom View</p> <p>Dimensions: 1.6±0.2, 2.6±0.1, 0.50, 0.8MAX^{+0.1}_{-0.05}, 0.125±0.05, 3.0±0.1, 0.2^{+0.1}_{-0.05}, φ0.05, (0.3), (0.3), (2.0), (0.1), (1.1), (0.15), (1.35)</p> |  <p>Dimensions: 0.50, 2.75, 0.65, 0.25</p> |
| SON-6B |  <p>Bottom View</p> <p>Dimensions: 1.6±0.2, 2.6±0.1, 0.50, 0.8max^{+0.1}_{-0.05}, 0.125±0.05, 3.0±0.1, 0.2^{+0.1}_{-0.05}, φ0.05, (0.3), (0.3), (2.0), (0.05), (1.1), (0.15), (1.35)</p> |  <p>Dimensions: 0.50, 2.75, 0.65, 0.25</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|--------|--|--|
| SON-6C |  <p>SON-6C package dimensions and views. Dimensions include: 1.6±0.05 (width), 1.6±0.05 (height), 0.13±0.05 (height), 2.0±0.1 (length), 0.55±0.05 (height), 0.22±0.05 (offset), 0.10±0.05 (diameter), 0.2±0.1 (pin width), and 0.3 (pin spacing).</p> |  <p>SON-6C recommended land pattern dimensions: 0.30, 0.20, 0.52, 1.36, 1.88, and 0.5.</p> |
| SON-6D |  <p>SON-6D package dimensions and views. Dimensions include: 2.90±0.1 (width), 0.5 typ. (height), 0.10±0.1 (offset), 3.00±0.1 (width), 2.80±0.1 (width), 0.80±0.05 (length), 0.15±0.05 (height), 0.95 (offset), 0.30±0.05 (offset), 0.2±0.1 (pin width), and 0.2±0.1 (pin spacing).</p> |  <p>SON-6D recommended land pattern dimensions: 0.95, 0.95, 0.35, 1.6, 2.3, and 0.65.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|---------------|---|--|
| <p>SOP-7B</p> | <p>Top view dimensions: 5.0±0.3, 1.67±0.20, 4.4±0.2, 0.895max., 1.27, 0.15^{+0.10}/_{-0.05}, 0~10°.</p> <p>Side view dimensions: 0.4±0.2, 6.2±0.3.</p> <p>Detail view dimensions: 0.4±0.1, 0.10, 0.05±0.05, 0.12, 1.55±0.15, (1.5).</p> | <p>Pin pitch: 1.27</p> <p>Pin width: 0.80</p> <p>Land width: 2.07</p> <p>Land spacing: 1.10</p> <p>Overall width: 5.80</p> |
| <p>SOP-8C</p> | <p>Top view dimensions: 5.2±0.3, 4.4±0.2, 0.995max., 1.27, 0.15^{+0.10}/_{-0.05}, 0~10°.</p> <p>Side view dimensions: 0.4±0.2, 6.2±0.3.</p> <p>Detail view dimensions: 0.4±0.1, 0.10, 0.05±0.05, 0.12, 1.55±0.15, (1.5).</p> | <p>Pin pitch: 1.27</p> <p>Pin width: 0.80</p> <p>Land spacing: 1.10</p> <p>Overall width: 5.80</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|--|---|
| <p>SOP-8D</p> | <p>Top view dimensions: 5.0 ± 0.3, 4.4 ± 0.2, 0.895max., 1.27, 0.4, 0.127, 0.1, 0.4 ± 0.1, 0.12.</p> <p>Side view dimensions: $0.15^{+0.10}_{-0.05}$, 0.4 ± 0.2, 6.2 ± 0.3, $0 \sim 10^\circ$.</p> <p>Bottom view dimensions: (1.5), 0.05 ± 0.05, 1.55 ± 0.15.</p> | <p>Land pattern dimensions: 1.27, 0.80, 5.80, 1.10.</p> |
| <p>SOP-10A</p> | <p>Top view dimensions: 5.0 ± 0.2, 4.4 ± 0.2, 0.8max., 1.0, 0.35 ± 0.10, 0.12.</p> <p>Side view dimensions: $0.15^{+0.10}_{-0.05}$, 0.4 ± 0.2, 6.2 ± 0.3, $0 \sim 10^\circ$.</p> <p>Bottom view dimensions: (1.5), 0.05 ± 0.05, 1.55 ± 0.15.</p> | <p>Land pattern dimensions: 0.45, 5.90, 1.10.</p> |

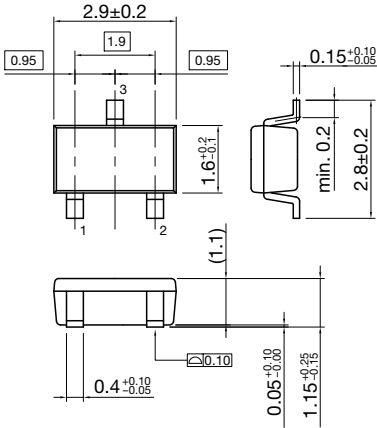
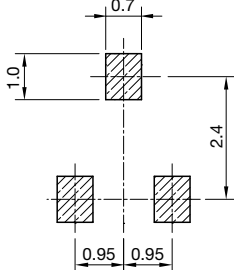
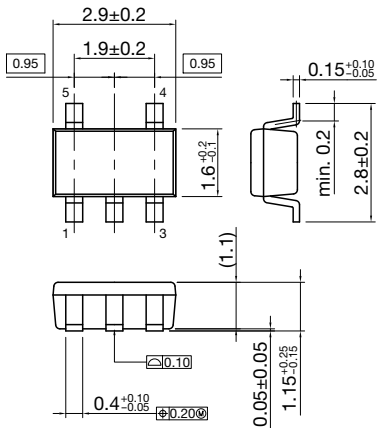
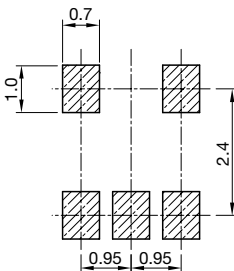
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|---|---|
| <p>SOP-16B</p> | <p>Top view dimensions: 10.2±0.3, 4.4±0.2, 0.955max., 1.27, 16, 9, 8.</p> <p>Side view dimensions: 0.15^{+0.05}/_{-0.05}, 0.4±0.2, 6.2±0.3, 0-10°.</p> <p>Detail view dimensions: 0.05±0.05, 1.55±0.15, 0.4±0.1, 0.10, 0.12.</p> | <p>Pin pitch: 1.27, 0.80.</p> <p>Pin width: 1.10.</p> <p>Overall width: 5.80.</p> |
| <p>SOP-28B</p> | <p>Top view dimensions: 17.6±0.3, 7.6±0.2, 0.845max., 1.27, 28, 15, 14.</p> <p>Side view dimensions: 0.2^{+0.10}/_{-0.05}, 0.5±0.2, 9.9±0.3, 0-10°.</p> <p>Detail view dimensions: 0.05±0.05, 1.85±0.15, 0.4±0.1, 0.10, 0.12.</p> | <p>Pin pitch: 1.27.</p> <p>Pin width: 1.20.</p> <p>Overall width: 9.40.</p> <p>Pin spacing: 0.60.</p> |

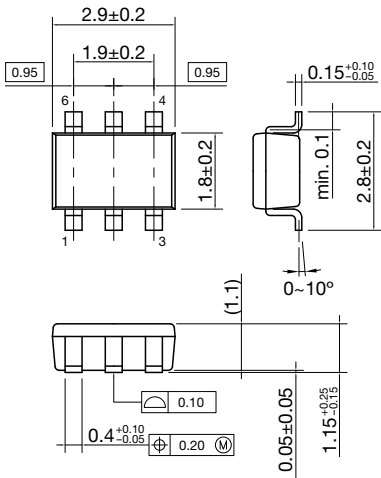
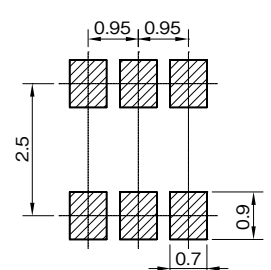
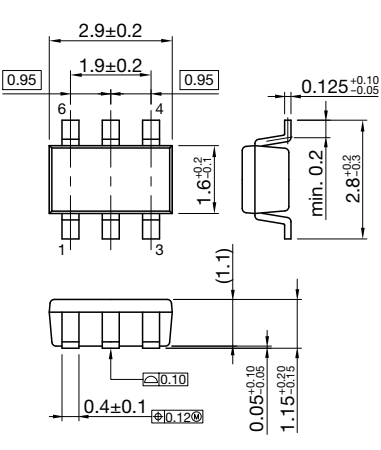
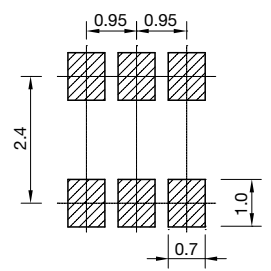
for package

パッケージ

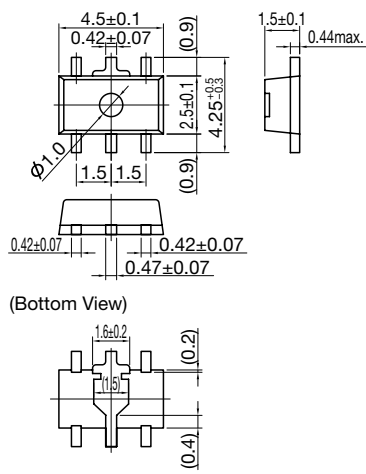
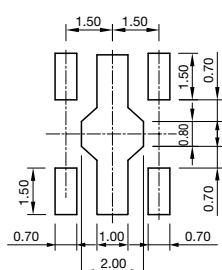
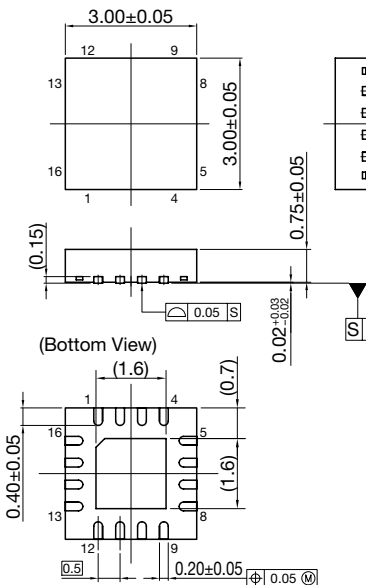
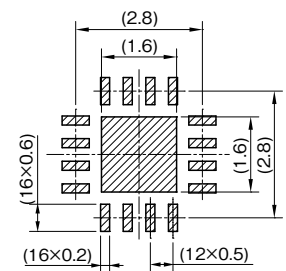
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|---|---|
| <p>SOT-23A</p> |  |  |
| <p>SOT-25A</p> |  |  |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|---|---|
| <p>SOT-26A</p> |  |  |
| <p>SOT-26B</p> |  |  |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|--|--|
| <p>SOT89-5A</p> |  <p>Top View Dimensions: 4.5 ± 0.1, 0.42 ± 0.07 (0.9), 2.5 ± 0.1, $4.25^{+0.03}$, $\phi 1.0$, 1.5, 1.5 (0.9)</p> <p>Side View Dimensions: 1.5 ± 0.1, 0.44max.</p> <p>Bottom View Dimensions: 0.42 ± 0.07, 0.42 ± 0.07, 0.47 ± 0.07</p> <p>(Bottom View) Dimensions: 1.6 ± 0.2 (0.2), 0.4</p> |  <p>Land Pattern Dimensions: 1.50, 1.50, 1.50, 0.70, 0.80, 0.70, 2.00, 1.00, 0.70</p> |
| <p>SQFN-16A</p> |  <p>Top View Dimensions: 3.00 ± 0.05, 12, 9, 13, 8, 3.00 ± 0.05, 16, 5, 1, 4</p> <p>Side View Dimensions: 0.15, 0.75 ± 0.05, 0.05 S, $0.02^{+0.02}$ S</p> <p>(Bottom View) Dimensions: 0.40 ± 0.05, 16, 13, 12, 9, 0.20 ± 0.05 $\phi 0.05$ (M), 1.6 (0.7), 1.6 (1.6)</p> |  <p>Land Pattern Dimensions: (2.8), (1.6), (16×0.6), (1.6), (16×0.2), (12×0.5), (2.8)</p> |

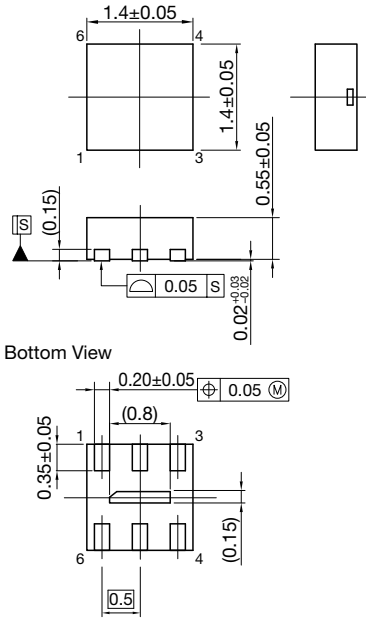
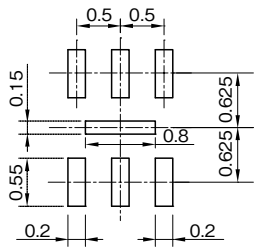
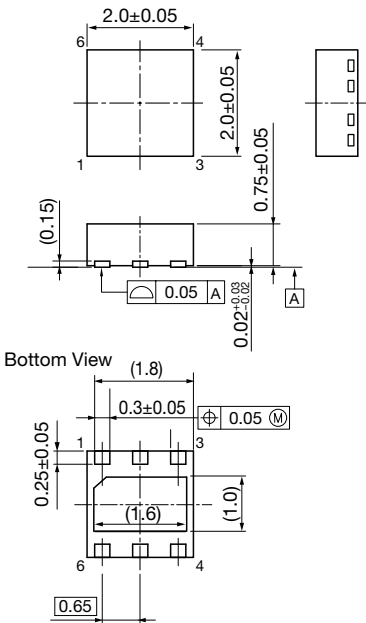
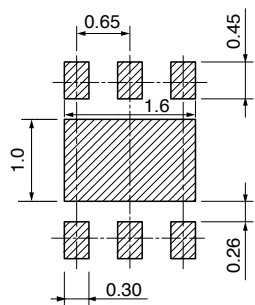
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|---|---|
| <p>SQFN-32A</p> | <p>Technical drawing of SQFN-32A package. Top view shows a square footprint with dimensions 24x24. Pin pitch is 5.0±0.05. Pin 1 is at the top-left corner. Bottom view shows a square footprint with dimensions 24x24. Pin pitch is 3.6. Pin 1 is at the top-left corner. Side view shows a height of 0.75±0.05. Other dimensions include 0.02±0.03, 0.15, 0.5, and 0.05.</p> | <p>Recommended land pattern diagram for SQFN-32A package. The package is square with a side length of 4.8. The pin pitch is 3.6. The land diameter is 0.6. The land-to-land spacing is 0.2. The land-to-pin spacing is 0.5.</p> |
| <p>SSON-4B</p> | <p>Technical drawing of SSON-4B package. Top view shows a square footprint with dimensions 1.1±0.05x1.4±0.05. Pin 1 is at the bottom-left corner. Bottom view shows a square footprint with dimensions 1.1±0.05x1.4±0.05. Pin 1 is at the bottom-left corner. Side view shows a height of 0.55±0.05. Other dimensions include 0.02±0.03, 0.15, 0.5, and 0.05.</p> | <p>Recommended land pattern diagram for SSON-4B package. The package is square with a side length of 1.1. The pin pitch is 1.05. The land diameter is 0.5. The land-to-land spacing is 0.3. The land-to-pin spacing is 0.8.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|---------|---|---|
| SSON-6A | <p>Technical drawing of SSON-6A package. Top view shows a square with width 1.80 ± 0.05 and height 2.00 ± 0.05. Side view shows a height of 0.75 ± 0.05. Bottom view shows a central area of 0.30 ± 0.05 by 0.30 ± 0.05 with a $0.02^{+0.03}_{-0.02}$ offset. Pin dimensions include 0.05 ± 0.05, 0.20 ± 0.05, and $\phi 0.05$. A note (0.15) is present near the top edge.</p> | <p>Recommended land pattern diagram for SSON-6A. It shows a central square with a width of 1.2 and a height of 0.8. The land width is 0.3 and the land height is 0.2. There are three pins on each side, with a pin width of 0.5 and a spacing of 0.5 between pins. The distance from the center to the edge of the land is 0.7.</p> |
| SSON-6E | <p>Technical drawing of SSON-6E package. Top view shows a square with width 1.80 ± 0.05 and height 1.60 ± 0.05. Side view shows a height of 0.55 ± 0.05. Bottom view shows a central area of 0.30 ± 0.05 by 0.30 ± 0.05 with a $0.02^{+0.03}_{-0.02}$ offset. Pin dimensions include 0.05 ± 0.05, 0.20 ± 0.05, and $\phi 0.05$. A note (0.15) is present near the top edge.</p> | <p>Recommended land pattern diagram for SSON-6E. It shows a central square with a width of 1.2 and a height of 0.5. The land width is 0.3 and the land height is 0.2. There are three pins on each side, with a pin width of 0.5 and a spacing of 0.5. The distance from the center to the edge of the land is 0.45.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|---------|---|--|
| SSON-6J |  <p>Top View: 1.4±0.05, 1.4±0.05, 0.55±0.05</p> <p>Side View: 0.15, 0.05, 0.02^{+0.02}_{-0.02}, 0.55±0.05</p> <p>Bottom View: 0.20±0.05, 0.05, 0.35±0.05, 0.8, 0.15, 0.5</p> |  <p>0.5, 0.5, 0.15, 0.8, 0.625, 0.625, 0.2, 0.2</p> |
| SSON-6L |  <p>Top View: 2.0±0.05, 2.0±0.05, 0.75±0.05</p> <p>Side View: 0.15, 0.05, 0.02^{+0.02}_{-0.02}, 0.75±0.05</p> <p>Bottom View: 1.8, 0.3±0.05, 0.05, 0.25±0.05, 1.6, 1.0, 0.65</p> |  <p>0.65, 0.45, 1.0, 1.6, 0.26, 0.30</p> |

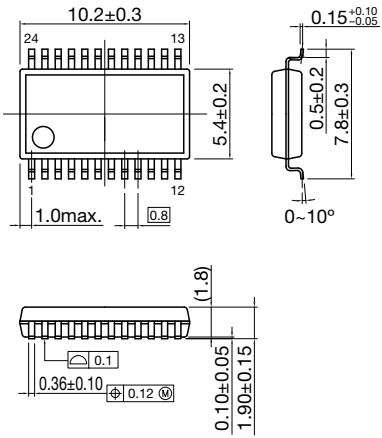
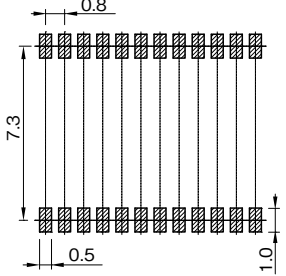
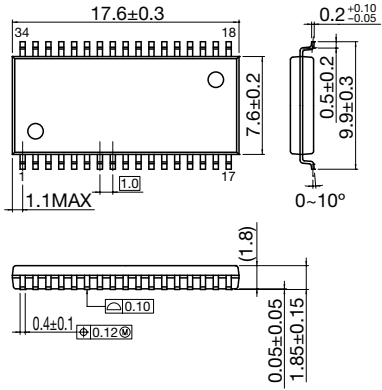
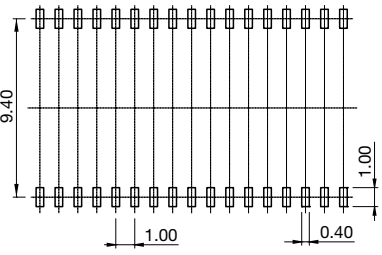
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|--|--|
| <p>SSON-8B</p> | <p>Technical drawing of SSON-8B package. Top view shows a square footprint with dimensions 2.30 ± 0.05 mm. Side view shows a height of 0.75 ± 0.05 mm and a lead height of 0.02 mm. Bottom view shows a lead width of 0.20 ± 0.05 mm and a lead thickness of 0.05 mm. A small rectangular symbol is shown to the right of the top view.</p> | <p>Recommended land pattern for SSON-8B package. It shows a square footprint with a side length of 2.1 mm. The distance between the centers of the pads is 0.9 mm. The pad diameter is 0.5 mm. The lead width is 0.6 mm and the lead thickness is 0.2 mm. The distance from the center of the pad to the edge of the land is 0.25 mm.</p> |
| <p>SSON-8C</p> | <p>Technical drawing of SSON-8C package. Top view shows a square footprint with dimensions 3.00 ± 0.10 mm. Side view shows a height of 0.55 ± 0.05 mm and a lead height of 0.08 mm. Bottom view shows a lead width of 0.30 ± 0.05 mm and a lead thickness of 0.1 mm. A small rectangular symbol is shown to the right of the top view.</p> | <p>Recommended land pattern for SSON-8C package. It shows a square footprint with a side length of 2.8 mm. The distance between the centers of the pads is 2.5 mm. The pad diameter is 0.65 mm. The lead width is 0.7 mm and the lead thickness is 0.3 mm. The distance from the center of the pad to the edge of the land is 0.33 mm.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------|--|---|
| SSON-10A | <p>Top View: 2.7, 10, 6, 2.5, 1, 5</p> <p>Bottom View: 0.15, 0.55, 0.02^{+0.03}/_{-0.02}, 0.05 A, 0.3, 0.1, 0.5, 0.25, 1, 5, 10, 6, 0.2, 0.05 M</p> <p>Side View: 0.02^{+0.03}/_{-0.02}, 0.05 A</p> | <p>Dimensions: 2.30, 0.50, 0.45, 1.50, 2.90, 0.10, 0.30, 0.20</p> |
| SSOP-8A | <p>Top View: 2.0±0.3, 2.3±0.2, 0.5, 0.25, 0.7, 0.1, 0.05^{+0.10}/_{-0.00}, 0.2^{+0.05}/_{-0.04}, 0.1 M</p> <p>Side View: (0.13), MIN0.1, 3.1±0.3, 0-10°</p> <p>Bottom View: 0.05^{+0.10}/_{-0.00}, 0.75±0.15</p> | <p>Dimensions: 0.50, 3.05, 0.55, 0.25</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|---|---|
| <p>SSOP-24B</p> |  <p>Top view dimensions: 10.2±0.3, 24, 13, 5.4±0.2, 1.0max., 0.8.</p> <p>Side view dimensions: 0.15^{+0.10}/_{-0.05}, 0.5±0.2, 7.8±0.3, 0~10°.</p> <p>Detail view dimensions: (1.8), 0.10±0.05, 1.90±0.15, 0.36±0.10, 0.1, 0.12.</p> |  <p>Land pattern dimensions: 0.8, 7.3, 0.5, 1.0.</p> |
| <p>SSOP-34A</p> |  <p>Top view dimensions: 17.6±0.3, 34, 18, 7.6±0.2, 1.1MAX, 1.0.</p> <p>Side view dimensions: 0.2^{+0.10}/_{-0.05}, 0.5±0.2, 9.9±0.3, 0~10°.</p> <p>Detail view dimensions: (1.8), 0.05±0.05, 1.85±0.15, 0.4±0.1, 0.10, 0.12.</p> |  <p>Land pattern dimensions: 9.40, 1.00, 0.40, 1.00.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|---|--|
| <p>SSOP-36A</p> | <p>Top view dimensions: 15.0±0.3, 36, 19, 18, 1.0max., 0.8</p> <p>Side view dimensions: 5.4±0.2, 0.15^{+0.10}/_{-0.05}, 0.5±0.2, 7.8±0.3, 0~10°</p> <p>Detail view dimensions: (1.8), 0.4±0.1, 0.10, 0.10, 0.10±0.05, 1.90±0.10</p> | <p>Land pattern dimensions: 0.8, 9.4, 0.5, 1.0</p> |
| <p>SSOP-42A</p> | <p>Top view dimensions: 17.6±0.3, 42, 23, 21, 1.1max., 0.8</p> <p>Side view dimensions: 7.6±0.2, 0.2^{+0.10}/_{-0.05}, 0.5±0.2, 9.9±0.3, 0~10°</p> <p>Detail view dimensions: (1.8), 0.35±0.10, 0.12, 0.1, 0.05±0.05, 1.85±0.15</p> | <p>Land pattern dimensions: 0.8, 9.4, 0.5, 1.0</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|---|---|
| <p>TO-92A</p> | <p>Technical drawing of TO-92A package showing dimensions: R2.5, 5.0±0.2, 7.5±0.3, 5.0±0.3, 12.7min., 0.4±0.1, 2.5, 3.8±0.2, 1.3, 0.38^{+0.10}/_{-0.05}.</p> | |
| <p>TO-252C</p> | <p>Technical drawing of TO-252C package showing dimensions: 6.60±0.20, 5.34±0.20, 2.30±0.20, 0.50±0.10, 0.127max., 9.90±0.30, 0.76±0.05, 0.50±0.10, 1.524^{+0.254}/_{-0.127}, 2.3, 6.10±0.20, 1.10, 2.70, 0.75, 5.51, 5.04.</p> | <p>Recommended land pattern for TO-252C showing dimensions: 6.00, 6.50, 6.25, 3.00, 1.40, 2.30, 4.60.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|-------|--------|
| <p>TSOP-16B</p> | | |
| <p>TSOP-16D</p> | | |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|----------------------|--------|
| <p>TSOP-20A</p> | | |
| <p>TSOP-20B</p> | <p>(Bottom View)</p> | |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|--|--|
| <p>TSOP-20D</p> | <p>Top View: 6.5±0.3, 4.4±0.2, 0.65, 0.625max., 1.1±0.1, 0.10±0.05, 0.22±0.08, (1.0), (0.10), (0.10)</p> <p>Side View: 0.15^{+0.10}/_{-0.05}, 6.4±0.3, 0.5±0.2, 0~10°</p> <p>Bottom View: 0.1±0.05, 1.1±0.1, (1.0)</p> | <p>Dimensions: 5.9, 0.65, 0.35, 0.90</p> |
| <p>TSOP-20E</p> | <p>Top View: 6.5±0.3, 4.4±0.2, 0.65, 0.625max., 1.1±0.1, 0.1±0.05, 0.22±0.1, (1.0), (0.10), (0.10)</p> <p>Side View: 0.15^{+0.10}/_{-0.05}, 6.4±0.3, 0.5±0.2, 0~10°</p> <p>Bottom View: 0.1±0.05, 1.1±0.1, (1.0)</p> <p>Bottom View (3.75): (2.85)</p> | <p>Dimensions: 5.9, 0.65, 0.35, 0.90, 4.20, 3.00</p> |

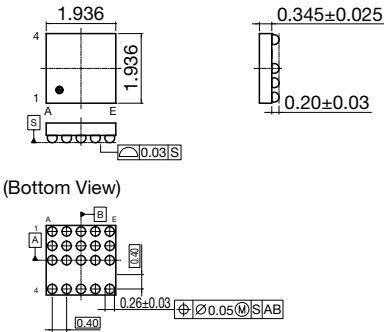
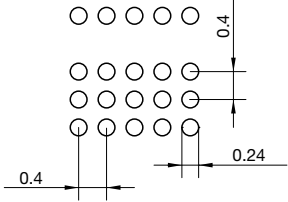
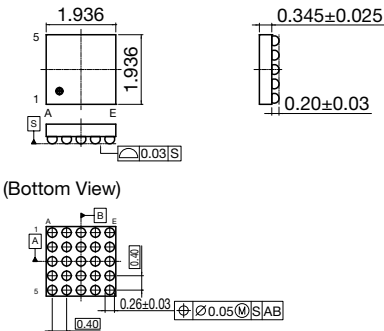
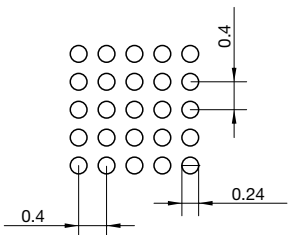
パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|-----------------|--|---|
| <p>TSOP-20F</p> | <p>6.5±0.3 4.4±0.2 0.65 0.127±0.008 0.6±0.1 6.4±0.3 0-8° 1.0 0.1±0.05 1.20MAX Bottom View (3.99) 0.24±0.05 Φ0.10 0.10 1 10 20 11</p> | <p>0.65 0.40 7.72 5.94 3.00 4.16 1.78</p> |
| <p>VSOP-8B</p> | <p>2.9±0.1 2.8±0.2 0.65 0.125^{+0.10}_{-0.05} 0.45±0.20 4.0±0.3 0-10° 1.1 1.3max. 0.10±0.05 0.10 0.2±0.1 Φ0.12 1 4 8 5</p> | <p>0.65 3.55 0.95 0.35</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|----------------|-------|--------|
| <p>VSOP-8C</p> | | |
| <p>VSOP-8D</p> | | |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|------------------|---|--|
| <p>WLCSP-20A</p> |  <p>Top View: 1.936 x 1.936 mm, 4 pins, 1.936 mm width, 0.20±0.03 mm thickness.</p> <p>Side View: 0.345±0.025 mm height, 0.20±0.03 mm thickness.</p> <p>(Bottom View): 0.40 mm pin pitch, 0.26±0.03 mm pad diameter, Ø0.05 mm pad diameter, 0.03 mm pad thickness.</p> |  <p>Grid: 4x4 pads, 0.4 mm pitch, 0.24 mm pad diameter.</p> |
| <p>WLCSP-25A</p> |  <p>Top View: 1.936 x 1.936 mm, 5 pins, 1.936 mm width, 0.20±0.03 mm thickness.</p> <p>Side View: 0.345±0.025 mm height, 0.20±0.03 mm thickness.</p> <p>(Bottom View): 0.40 mm pin pitch, 0.26±0.03 mm pad diameter, Ø0.05 mm pad diameter, 0.03 mm pad thickness.</p> |  <p>Grid: 5x4 pads, 0.4 mm pitch, 0.24 mm pad diameter.</p> |

パッケージ

| パッケージ名 | 外形寸法図 | 推奨ランド図 |
|------------------|--|---|
| <p>WLCSP-48A</p> | <p>Top View Dimensions: 3.47 ± 0.03 (width) 3.47 ± 0.03 (length) 0.4 ± 0.025 (pitch) 0.24 ± 0.03 (lead length) 0.03 (lead thickness)</p> <p>(Bottom View) 0.32 ± 0.05 (pitch) 0.50 (lead length) 0.05 (lead thickness)</p> | <p>Recommended Land Pattern: Grid: 4 rows by 12 columns. Pad diameter: 0.5 Pad pitch: 0.5 (horizontal), 0.25 (vertical)</p> |