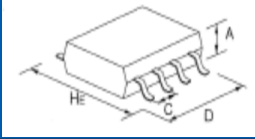
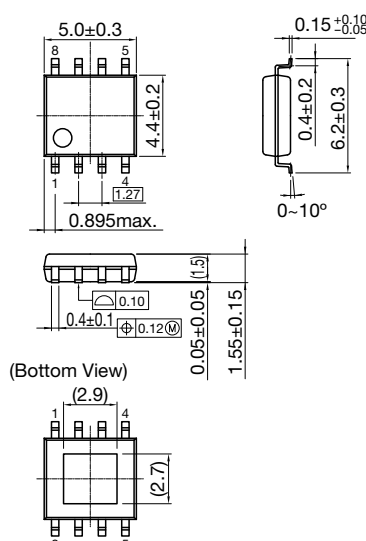
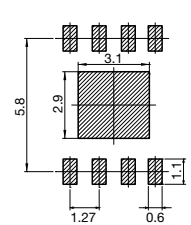
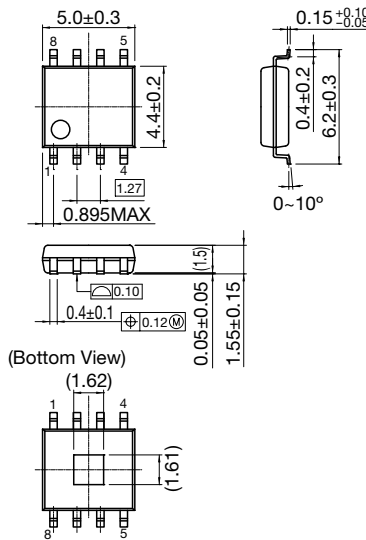
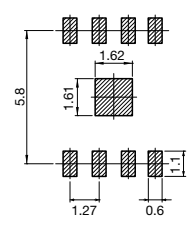


Package Line-up



Package Type	Pin Count	Package Name	Package Size (mm)			Pin Pitch (mm)	
			He	D	A	C	
Lead-through Type	3	TO-92A	5.40	3.80	7.50	2.50	
Flat Lead Type	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	
Gullwing Type	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	
	Non-Lead Type	4	PLP-4A	1.00	1.00	0.60	0.65
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	

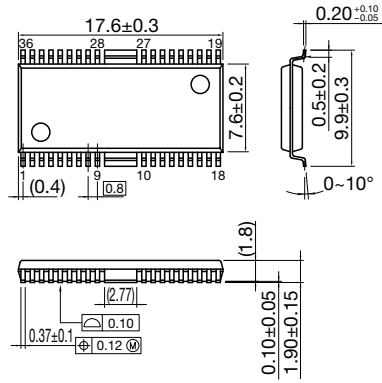
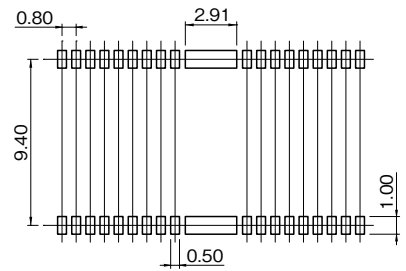
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<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: $0.15 \pm 0.10 / -0.05$, 0.4 ± 0.2, 6.2 ± 0.3, $0 \sim 10^\circ$</p> <p>Bottom View: 0.4 ± 0.1, $\phi 0.12$, 0.05 ± 0.05, 1.55 ± 0.15, 0.10, 1.5, 2.9, 2.7</p>	 <p>Land Pattern: 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: $0.15 \pm 0.10 / -0.05$, 0.4 ± 0.2, 6.2 ± 0.3, $0 \sim 10^\circ$</p> <p>Bottom View: 0.4 ± 0.1, $\phi 0.12$, 0.05 ± 0.05, 1.55 ± 0.15, 0.10, 1.5, 1.62, 1.61</p>	 <p>Land Pattern: 5.8, 1.62, 1.61, 1.27, 0.6, 1.1</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>HSOP-28A</p>		
<p>HSOP-28C</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<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>

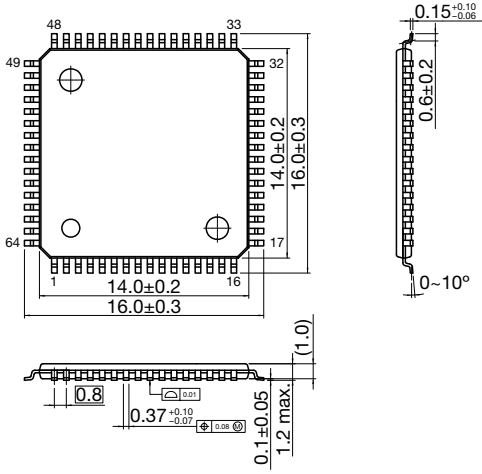
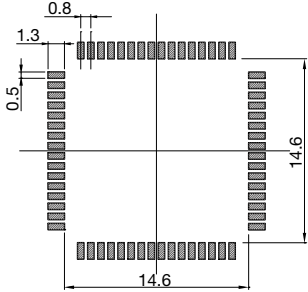
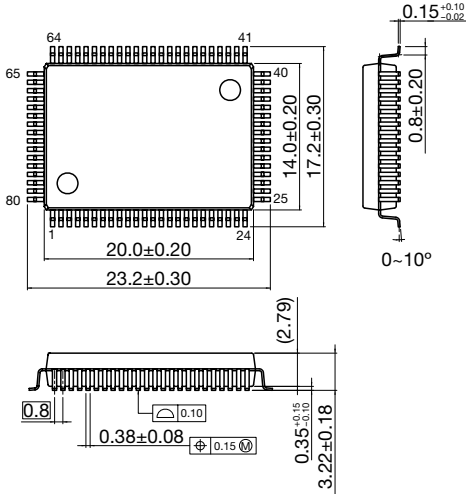
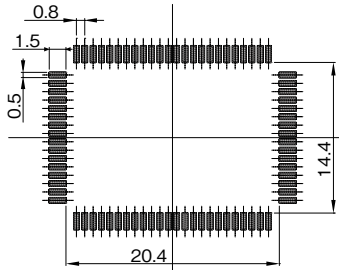
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>PLP-4A</p>	<p>Top View: 1.00±0.05 (width), 1.00±0.05 (height), pins 1, 2, 3, 4.</p> <p>Side View: 0.07MAX (height), 0.60MAX (length), 0.05 (thickness).</p> <p>Bottom View: 0.25±0.05 (width), 0.65 (width), 0.48±0.05 (width), 45° (angle), 0.32±0.05 (width), 0.07±0.05 (width), 0.25±0.05 (width), 0.05 (hole diameter).</p>	<p>Land Pattern Dimensions: 0.44, 0.25, 0.18, 0.25, 0.65, 0.55, 0.57, 1.46.</p>
<p>PLP-4B</p>	<p>Top View: 1.20±0.05 (width), 1.60±0.05 (height), pins 1, 2, 3, 4.</p> <p>Side View: 0.05 (height), 0.6MAX (length), 0.05 (thickness).</p> <p>Bottom View: 0.60 (width), 0.7 (width), 0.20±0.05 (width), 0.30±0.05 (width), 0.05 (hole diameter).</p>	<p>Land Pattern Dimensions: 0.45, 0.60, 0.70, 1.00, 2.10, 0.30.</p>

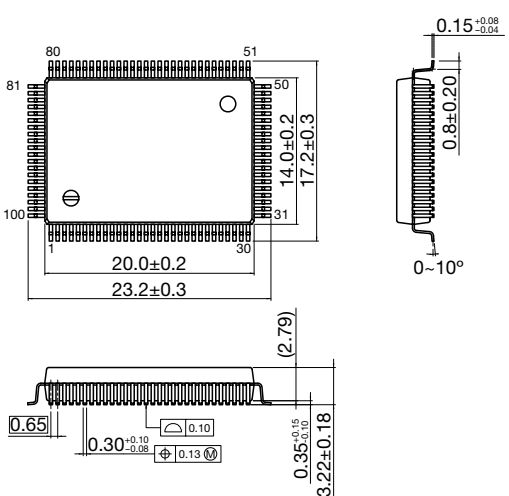
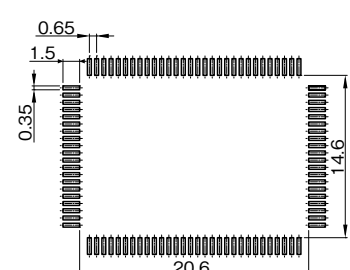
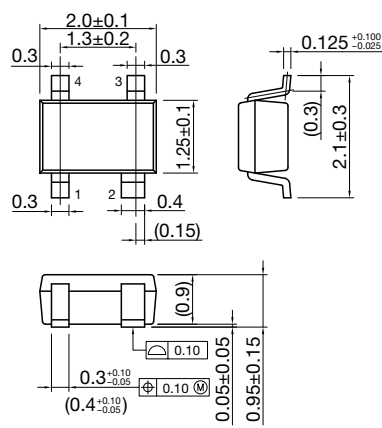
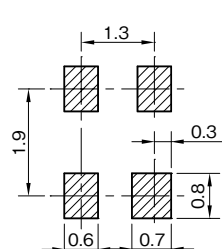
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>PLP-6A</p>		
<p>PLP-10A</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>QFP-64E</p>	 <p>Top view dimensions: 14.0±0.2, 16.0±0.3, 14.0±0.2, 16.0±0.3. Pin 1 location: 0.8. Lead thickness: 0.1±0.05. Lead width: 0.37^{+0.10}/_{-0.07}. Lead angle: 0~10°. Lead height: 0.6±0.2. Lead thickness: 0.15^{+0.10}/_{-0.06}. Lead length: 1.2 max. Lead width: 0.8. Lead thickness: 0.37^{+0.10}/_{-0.07}. Lead angle: 0~10°. Lead height: 0.6±0.2. Lead thickness: 0.15^{+0.10}/_{-0.06}.</p>	 <p>Land pattern dimensions: 14.6, 14.6, 0.8, 1.3, 0.5.</p>
<p>QFP-80D</p>	 <p>Top view dimensions: 20.0±0.20, 23.2±0.30, 14.0±0.20, 17.2±0.30. Pin 1 location: 0.8. Lead thickness: 0.1±0.05. Lead width: 0.38±0.08. Lead angle: 0~10°. Lead height: 0.8±0.20. Lead thickness: 0.15^{+0.10}/_{-0.06}. Lead length: 3.22±0.18. Lead width: 0.8. Lead thickness: 0.38±0.08. Lead angle: 0~10°. Lead height: 0.8±0.20. Lead thickness: 0.15^{+0.10}/_{-0.06}.</p>	 <p>Land pattern dimensions: 20.4, 14.4, 0.8, 1.5, 0.5.</p>

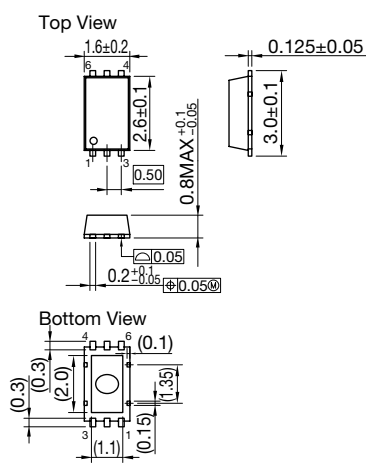
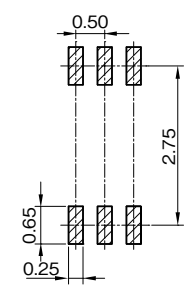
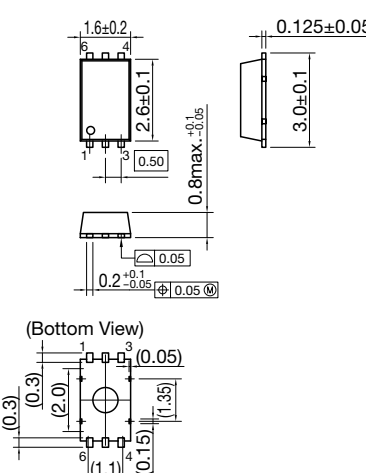
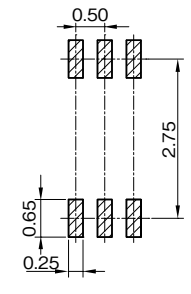
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>QFP-100A</p>	 <p>Top view dimensions: 20.0±0.2, 23.2±0.3, 14.0±0.2, 17.2±0.3, 0.65, 0.30±0.10, 0.10, 0.13, 0.35±0.15, 3.22±0.18, (2.79), 0.65, 0.30±0.10, 0.10, 0.13, 0.35±0.15, 3.22±0.18.</p> <p>Side view dimensions: 0.15±0.08, 0.8±0.20, 0-10°.</p>	 <p>Land pattern dimensions: 0.65, 1.5, 0.35, 20.6, 14.6.</p>
<p>SC-82ABA</p>	 <p>Top view dimensions: 2.0±0.1, 1.3±0.2, 0.3, 0.3, 1.25±0.1, 0.3, 0.3, 0.4, (0.15), 0.3, 0.3, 0.4, (0.15).</p> <p>Side view dimensions: 0.125±0.100, (0.3), 2.1±0.3.</p> <p>Lead view dimensions: 0.9, 0.10, 0.05±0.05, 0.95±0.15, 0.3±0.10, (0.4±0.05), 0.10, 0.10.</p>	 <p>Land pattern dimensions: 1.3, 1.9, 0.3, 0.8, 0.6, 0.7.</p>

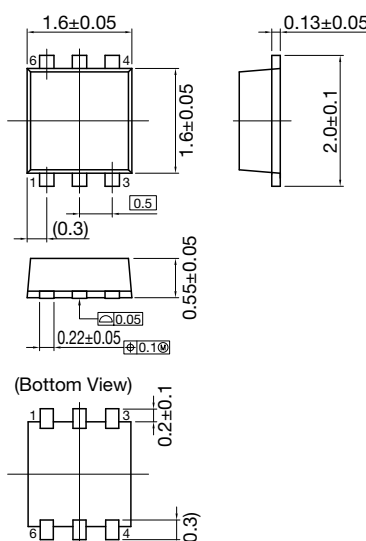
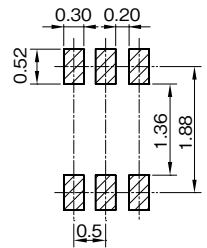
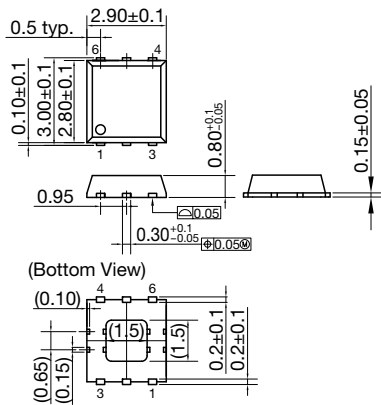
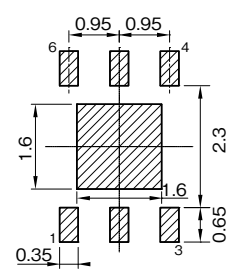
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SC-82ABB</p>		
<p>SC-88A</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
SON-6A	 <p>Top View</p> <p>Bottom View</p> <p>Dimensions: 1.6±0.2, 2.6±0.1, 0.50, 0.8MAX, 0.125±0.05, 3.0±0.1, 0.2±0.1, 0.05, 0.05, 0.1, 0.15, 1.35, 0.3, 2.0, 1.1, 0.1</p>	 <p>Dimensions: 0.50, 2.75, 0.65, 0.25</p>
SON-6B	 <p>Top View</p> <p>Bottom View</p> <p>Dimensions: 1.6±0.2, 2.6±0.1, 0.50, 0.8max, 0.125±0.05, 3.0±0.1, 0.2±0.1, 0.05, 0.05, 0.1, 0.15, 1.35, 0.3, 2.0, 1.1, 0.05</p>	 <p>Dimensions: 0.50, 2.75, 0.65, 0.25</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p style="text-align: center;">SON-6C</p>	 <p>Top View: 1.6 ± 0.05 (width), 1.6 ± 0.05 (height), 0.5 (pitch), (0.3) (lead width), 0.13 ± 0.05 (lead height), 2.0 ± 0.1 (total height).</p> <p>Side View: 0.55 ± 0.05 (height), 0.22 ± 0.05 (lead length), $\phi 0.10$ (lead diameter).</p> <p>Bottom View: 0.2 ± 0.1 (lead width), (0.3) (pitch).</p>	 <p>Land Pattern: 0.30 (pad width), 0.20 (pad length), 0.52 (pitch), 1.36 (total width), 1.88 (total length), 0.5 (pitch).</p>
<p style="text-align: center;">SON-6D</p>	 <p>Top View: 0.5 typ. (lead length), 2.90 ± 0.1 (width), 0.10 ± 0.1 (lead width), 3.00 ± 0.1 (pitch), 2.80 ± 0.1 (pitch), 0.80 ± 0.05 (height), 0.15 ± 0.05 (lead height).</p> <p>Side View: 0.95 (lead length), 0.30 ± 0.05 (lead length), $\phi 0.05$ (lead diameter).</p> <p>Bottom View: (0.10) (lead width), (1.5) (pitch), (0.65) (pitch), (0.15) (pitch), 0.2 ± 0.1 (lead width), 0.2 ± 0.1 (lead width).</p>	 <p>Land Pattern: 0.95 (pad width), 0.95 (pad length), 1.6 (total width), 2.3 (total length), 0.65 (pitch), 0.35 (pitch), 1.6 (pitch).</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOP-7B</p>		
<p>SOP-8C</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOP-8D</p>		
<p>SOP-10A</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOP-16B</p>		
<p>SOP-28B</p>		

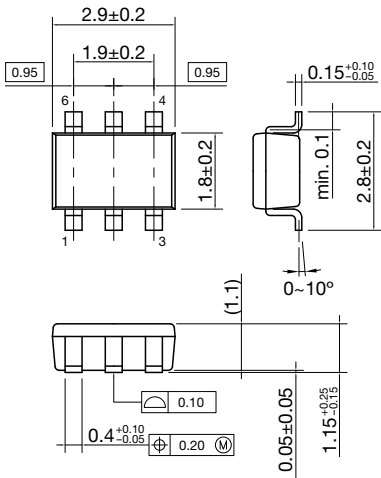
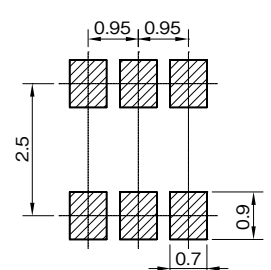
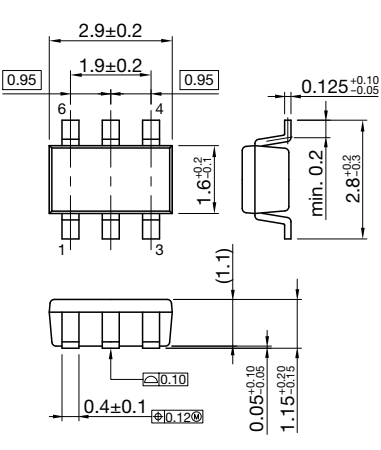
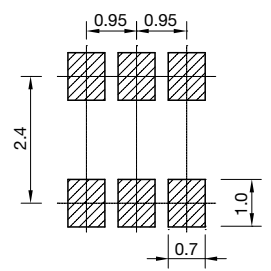
for package

Package

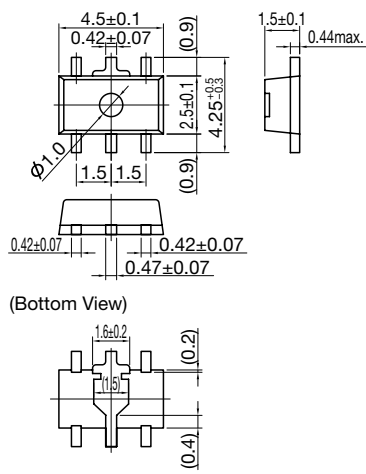
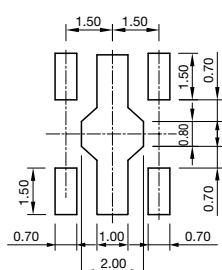
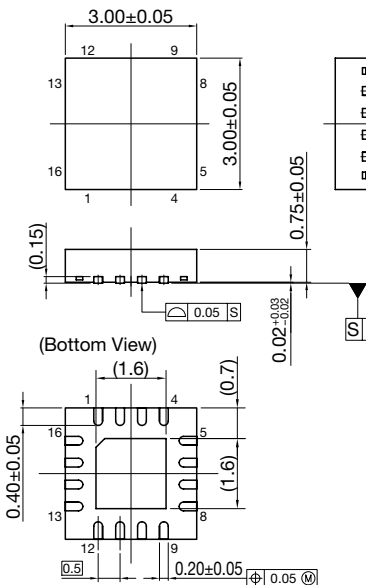
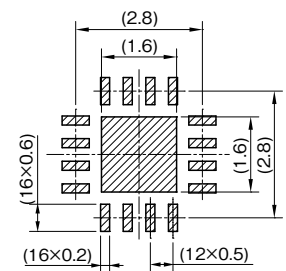
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOT-23A</p>	<p>Top view dimensions: 2.9±0.2, 1.9, 0.95, 0.95, 1.6±0.2. Pin 3 is centered. Side view dimensions: 0.15±0.10, min. 0.2, 2.8±0.2. Bottom view dimensions: 0.4±0.10, 0.05±0.10, 1.15±0.25, (1.1), 0.10.</p>	<p>Land pattern dimensions: Pad width 0.7, pad height 1.0, pad spacing 2.4, pad offset 0.95.</p>
<p>SOT-25A</p>	<p>Top view dimensions: 2.9±0.2, 1.9±0.2, 0.95, 0.95, 1.6±0.2. Pins 5, 4, 3 are spaced. Side view dimensions: 0.15±0.10, min. 0.2, 2.8±0.2. Bottom view dimensions: 0.4±0.10, 0.05±0.05, 1.15±0.25, (1.1), 0.20.</p>	<p>Land pattern dimensions: Pad width 0.7, pad height 1.0, pad spacing 2.4, pad offset 0.95.</p>

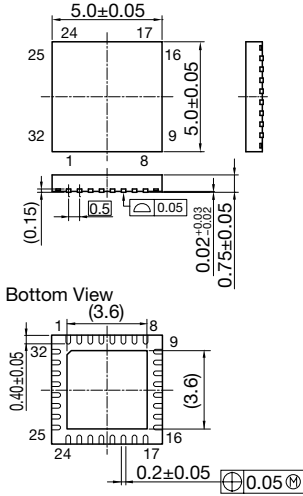
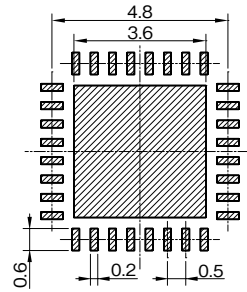
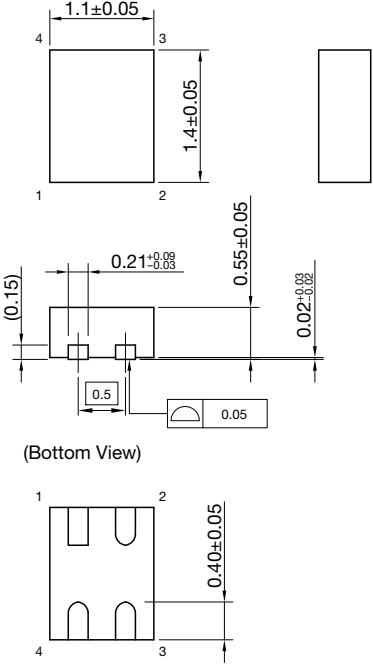
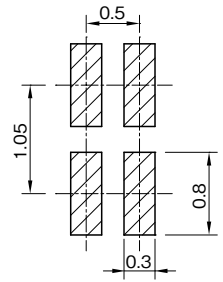
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOT-26A</p>	 <p>Top view dimensions: 2.9±0.2, 1.9±0.2, 0.95, 0.95, 1.8±0.2, 0.15^{+0.10}/_{-0.05}, 0.4^{+0.10}/_{-0.05}, 0.20, 0.05±0.05, 1.15^{+0.25}/_{-0.15}, 0.10, 0.20, 1.1, 0~10°.</p> <p>Side view dimensions: 2.8±0.2, min. 0.1.</p>	 <p>Land pattern dimensions: 0.95, 0.95, 2.5, 0.9, 0.7.</p>
<p>SOT-26B</p>	 <p>Top view dimensions: 2.9±0.2, 1.9±0.2, 0.95, 0.95, 1.6±0.2, 0.125^{+0.10}/_{-0.05}, 0.4±0.1, 0.10, 0.05±0.05, 1.15^{+0.20}/_{-0.15}, 0.12, 1.1, 0~10°.</p> <p>Side view dimensions: 2.8^{+0.2}/_{-0.3}, min. 0.2.</p>	 <p>Land pattern dimensions: 0.95, 0.95, 2.4, 1.0, 0.7.</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOT89-5A</p>	 <p>Top View: 4.5 ± 0.1, 0.42 ± 0.07 (0.9), 2.5 ± 0.1, $4.25^{+0.3}_{-0.3}$, $\phi 1.0$, 1.5, 1.5, 0.9</p> <p>Side View: 1.5 ± 0.1, 0.44max.</p> <p>Bottom View: 0.42 ± 0.07, 0.42 ± 0.07, 0.47 ± 0.07</p> <p>(Bottom View): 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, 1.00, 2.00, 0.70</p>
<p>SQFN-16A</p>	 <p>Top View: 3.00 ± 0.05, 12, 9, 13, 8, 3.00 ± 0.05, 16, 5, 1, 4</p> <p>Side View: 0.15, 0.75 ± 0.05, 0.05 S, $0.02^{+0.02}_{-0.02}$, S</p> <p>(Bottom View): 0.40 ± 0.05, 16, 13, 12, 9, 8, 5, 4, 1, 1.6, 0.7, 1.6, 0.20 ± 0.05, $\phi 0.05$ (M)</p>	 <p>Land Pattern Dimensions: (2.8), (1.6), (16×0.6), (16×0.2), (12×0.5), (1.6), (2.8)</p>

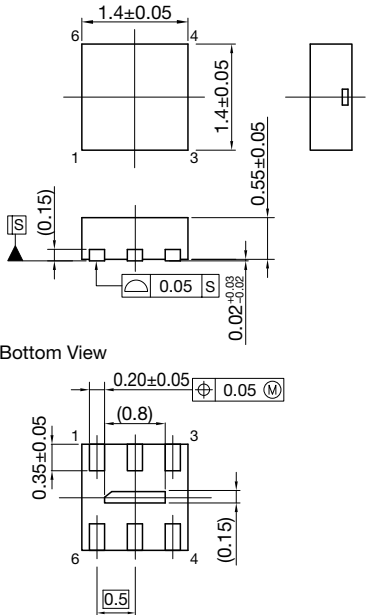
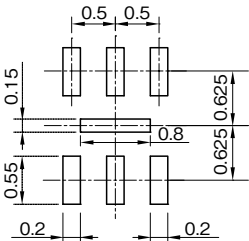
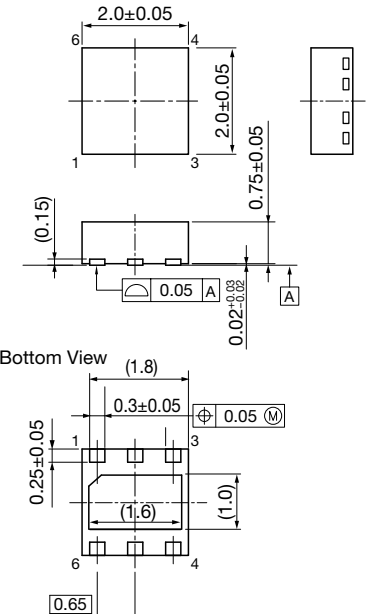
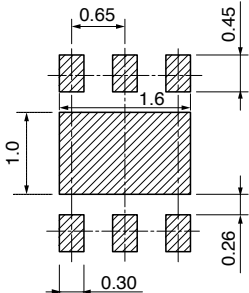
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SQFN-32A</p>	 <p>Top View: 5.0±0.05, 24, 17, 25, 16, 32, 9, 5.0±0.05, 1, 8</p> <p>Side View: (0.15), 0.5, 0.05, 0.02±0.03, 0.75±0.05</p> <p>Bottom View: (3.6), 1, 8, 9, 0.40±0.05, 32, 25, 24, 17, 16, 0.2±0.05, 0.05</p>	 <p>4.8, 3.6, 0.6, 0.2, 0.5</p>
<p>SSON-4B</p>	 <p>Top View: 1.1±0.05, 4, 3, 1, 2, 1.4±0.05</p> <p>Side View: (0.15), 0.21±0.03, 0.55±0.05, 0.02±0.03, 0.5, 0.05</p> <p>(Bottom View): 1, 2, 4, 3, 0.40±0.05</p>	 <p>0.5, 1.05, 0.8, 0.3</p>

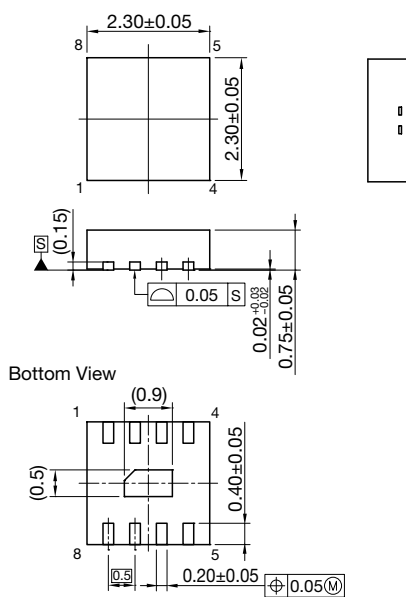
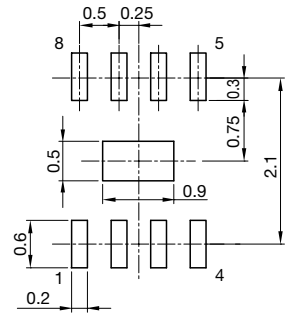
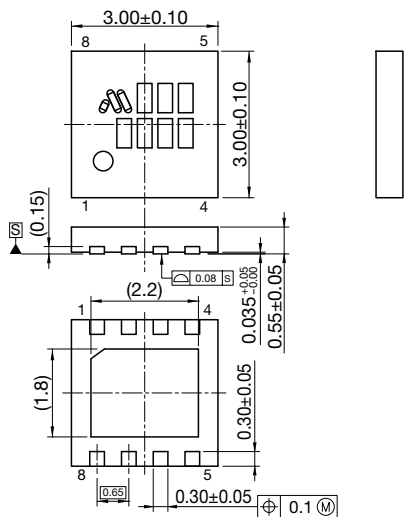
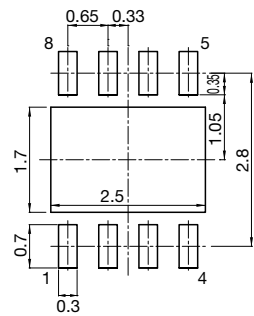
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSON-6A</p>		
<p>SSON-6E</p>		

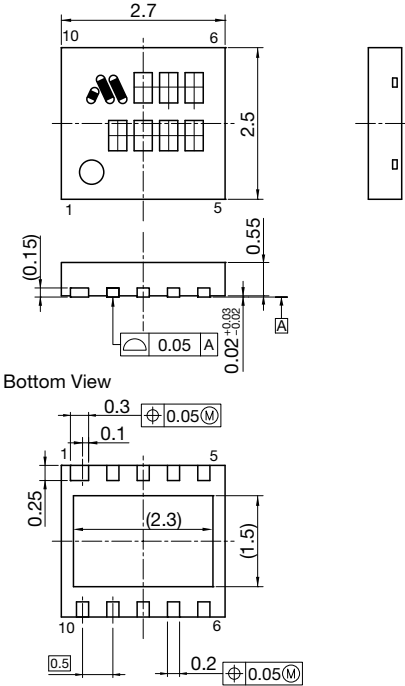
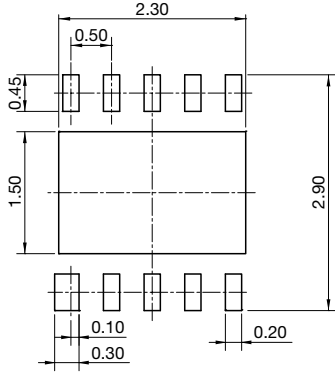
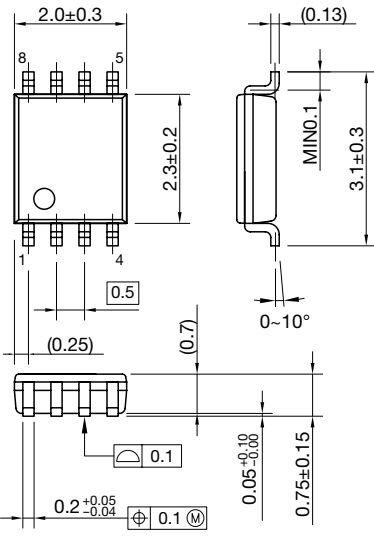
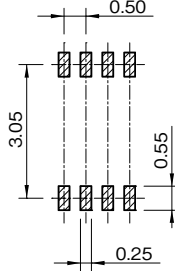
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSON-6J</p>	 <p>Top View: 1.4±0.05 (width), 1.4±0.05 (height), pins 1, 3, 4, 6.</p> <p>Side View: 0.55±0.05 (height), 0.02^{+0.02}_{-0.02} (lead height), 0.05 (lead width), 0.15 (pitch).</p> <p>Bottom View: 0.20±0.05 (pin width), 0.05 (pin offset), 0.35±0.05 (pin pitch), 0.8 (pin spacing), 0.15 (pin height), 0.5 (pin width).</p>	 <p>Land Pattern: 0.5 (pad width), 0.5 (pad width), 0.15 (pitch), 0.8 (pitch), 0.625 (pitch), 0.2 (pitch), 0.55 (pitch).</p>
<p>SSON-6L</p>	 <p>Top View: 2.0±0.05 (width), 2.0±0.05 (height), pins 1, 3, 4, 6.</p> <p>Side View: 0.75±0.05 (height), 0.02^{+0.02}_{-0.02} (lead height), 0.05 (lead width), 0.15 (pitch), A (lead angle).</p> <p>Bottom View: 1.8 (pin width), 0.3±0.05 (pin width), 0.05 (pin offset), 0.25±0.05 (pin pitch), 1.6 (pin spacing), 1.0 (pin height), 0.65 (pin width).</p>	 <p>Land Pattern: 0.65 (pad width), 0.45 (pad width), 1.0 (pitch), 1.6 (pitch), 0.30 (pitch), 0.26 (pitch).</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSON-8B</p>	 <p>Top View: Overall width 2.30±0.05, pin spacing 0.5, pin width 0.25, total pin width 0.75±0.05. Pin positions 1, 4, 5, 8.</p> <p>Side View: Package height 0.15, lead height 0.02, lead thickness 0.05, lead length 0.75±0.05.</p> <p>Bottom View: Pin spacing 0.9, lead width 0.5, lead thickness 0.40±0.05, lead length 0.20±0.05. Pin positions 1, 4, 5, 8.</p>	 <p>Pin spacing 0.5, pin width 0.25, pad width 0.3, pad length 0.75. Total pad length 2.1. Pad thickness 0.6, lead thickness 0.2.</p>
<p>SSON-8C</p>	 <p>Top View: Overall width 3.00±0.10, pin spacing 0.5, total pin width 3.00±0.10. Pin positions 1, 4, 5, 8.</p> <p>Side View: Package height 0.15, lead height 0.08, lead thickness 0.035±0.005, lead length 0.55±0.05.</p> <p>Bottom View: Pin spacing 2.2, lead width 1.8, lead thickness 0.30±0.05, lead length 0.30±0.05. Pin positions 1, 4, 5, 8.</p>	 <p>Pin spacing 0.65, pin width 0.33, pad width 0.3, pad length 1.05. Total pad length 2.8. Pad thickness 0.7, lead thickness 0.3.</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSON-10A</p>	 <p>Top View: Overall width 2.7, pin pitch 0.5, pin width 0.15, pin length 0.55, distance from center to pin 1 1.0, distance from center to pin 6 0.6, distance from center to pin 5 2.5.</p> <p>Side View: Pin height 0.15, lead thickness 0.05, lead width 0.02, lead angle A.</p> <p>Bottom View: Pin pitch 0.3, pin width 0.1, pin length 0.25, distance from center to pin 1 0.1, distance from center to pin 5 0.5, distance from center to pin 10 0.5, distance from center to pin 6 0.2, distance from center to pin 2 (2.3), distance from center to pin 3 (1.5).</p>	 <p>Land Pattern: Pad width 0.50, pad pitch 0.50, pad length 0.45, pad height 1.50, pad width at bottom 0.10, pad width at bottom 0.30, pad width at bottom 0.20, total width 2.30, total height 2.90.</p>
<p>SSOP-8A</p>	 <p>Top View: Pin pitch 0.5, pin width 0.5, distance from center to pin 8 2.0±0.3, distance from center to pin 5 2.3±0.2, distance from center to pin 4 0.5.</p> <p>Side View: Pin height 0.13, lead thickness MIN0.1, lead width 3.1±0.3, lead angle 0-10°.</p> <p>Bottom View: Pin pitch 0.25, pin width 0.7, pin length 0.1, distance from center to pin 1 0.2±0.05/±0.04, distance from center to pin 2 0.05±0.10/±0.00, distance from center to pin 3 0.75±0.15.</p>	 <p>Land Pattern: Pad width 0.50, pad pitch 0.50, pad length 3.05, pad width at bottom 0.55, pad width at bottom 0.25.</p>

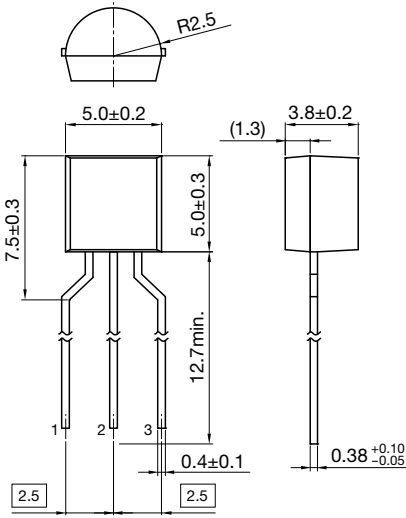
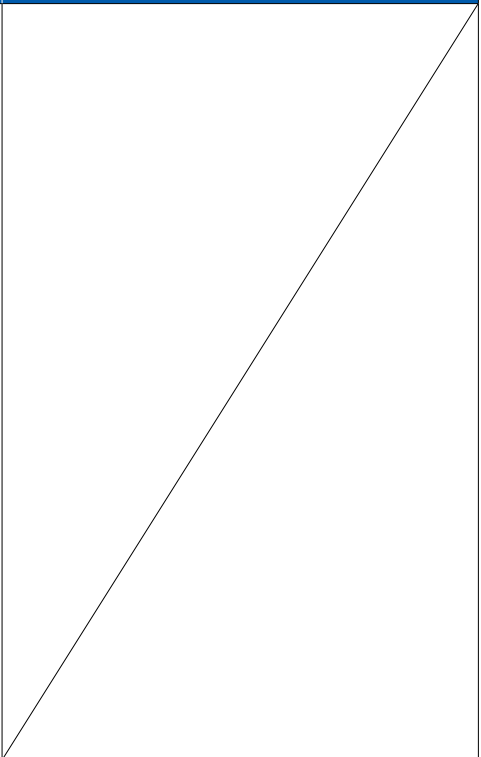
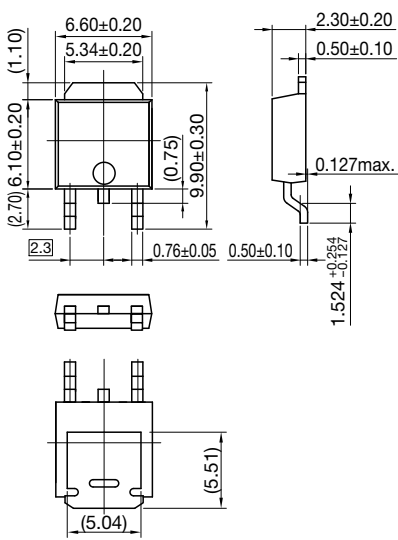
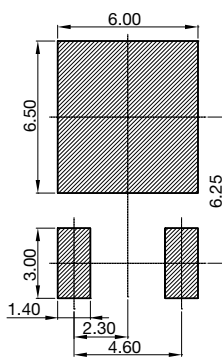
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSOP-24B</p>		
<p>SSOP-34A</p>		

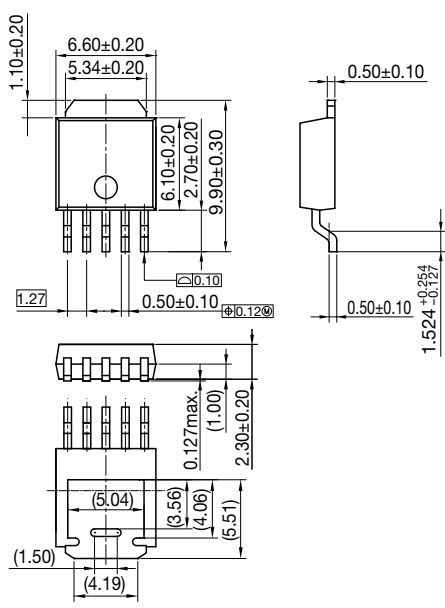
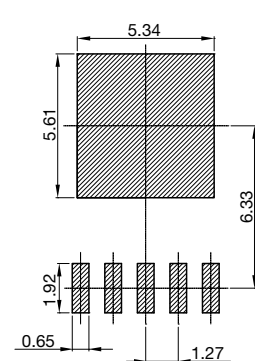
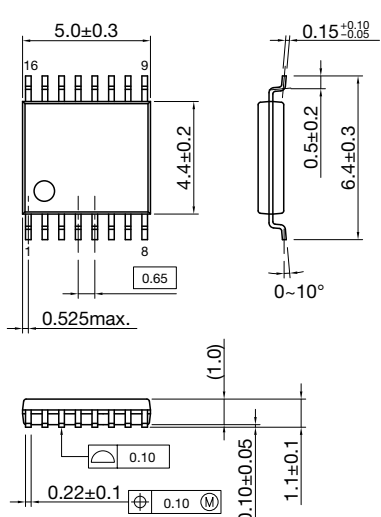
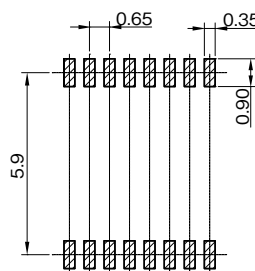
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSOP-36A</p>	<p>Top view: 15.0±0.3, 36, 19, 18, 1.0max., 0.8</p> <p>Side view: 5.4±0.2, 0.15±0.10/-0.05, 0.5±0.2, 7.8±0.3, 0~10°</p> <p>End view: 1.8, 0.4±0.1, 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: 17.6±0.3, 42, 23, 21, 1.1max., 0.8</p> <p>Side view: 7.6±0.2, 0.2±0.10/-0.05, 0.5±0.2, 9.9±0.3, 0~10°</p> <p>End view: 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>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TO-92A</p>	 <p>Dimensional drawing of TO-92A package showing top, side, and detail views. Dimensions include: top diameter 5.0±0.2, height 7.5±0.3, lead length 12.7 min., lead diameter 0.4±0.1, and lead thickness 0.38 (+0.10/-0.05).</p>	 <p>Recommended land pattern for TO-92A, showing a square pad with a diameter of 6.00 mm.</p>
<p>TO-252C</p>	 <p>Dimensional drawing of TO-252C package showing top, side, and bottom views. Dimensions include: top diameter 6.60±0.20, lead diameter 0.76±0.05, lead length 1.524 (+0.254/-0.127), and lead thickness 0.127 max.</p>	 <p>Recommended land pattern for TO-252C, showing a square pad with a diameter of 6.00 mm and a lead diameter of 2.30 mm.</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TO-252-5A</p>	 <p>Top view dimensions: 6.60±0.20, 5.34±0.20, 6.10±0.20, 2.70±0.20, 9.90±0.30, 1.10±0.20, 1.27, 0.50±0.10, 0.10, 0.12, 0.50±0.10, 1.524^{+0.254}/_{-0.127}.</p> <p>Side view dimensions: 0.50±0.10, 1.524^{+0.254}/_{-0.127}.</p> <p>Detail view dimensions: 0.127max., (1.00), 2.30±0.20, (6.04), (3.56), (4.06), (5.51), (1.50), (4.19).</p>	 <p>Land pattern dimensions: 5.34, 5.61, 6.33, 1.92, 0.65, 1.27.</p>
<p>TSOP-16A</p>	 <p>Top view dimensions: 5.0±0.3, 4.4±0.2, 0.65, 0.525max., 16, 9.</p> <p>Side view dimensions: 0.15^{+0.10}/_{-0.05}, 0.5±0.2, 6.4±0.3, 0~10°.</p> <p>Detail view dimensions: (1.0), 0.10, 0.22±0.1, 0.10, 0.10±0.05, 1.1±0.1.</p>	 <p>Land pattern dimensions: 0.65, 0.35, 5.9, 0.90.</p>

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TSOP-16B</p>		
<p>TSOP-16D</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TSOP-20A</p>		
<p>TSOP-20B</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TSOP-20D</p>		
<p>TSOP-20E</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TSOP-20F</p>	<p>Top View: 6.5±0.3, 4.4±0.2, 0.65, 11, 20, 10</p> <p>Side View: 0.127±0.008, 0.6±0.1, 6.4±0.3, 0-8°</p> <p>Bottom View: 0.24±0.05, 0.1±0.05, 1.20MAX, 1.0, 0.10, 0.10, 1, 10, 20, 11, 3.99, 2.80</p>	<p>Dimensions: 7.72, 5.94, 3.00, 4.16, 1.78, 0.65, 0.40, 3.19</p>
<p>VSOP-8B</p>	<p>Top View: 2.9±0.1, 2.8±0.2, 0.65, 8, 5, 4, 1</p> <p>Side View: 0.125^{+0.10}/_{-0.05}, 0.45±0.20, 4.0±0.3, 0-10°</p> <p>Bottom View: 0.2±0.1, 0.10±0.05, 1.1, 1.3max, 0.10, 0.12, 1</p>	<p>Dimensions: 0.65, 3.55, 0.95, 0.35</p>

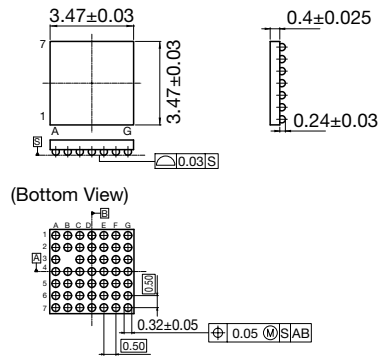
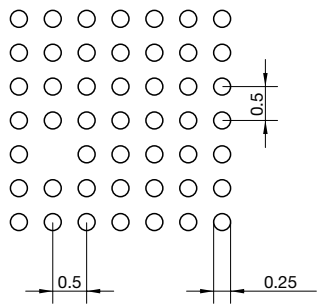
Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>VSOP-8C</p>		
<p>VSOP-8D</p>		

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>WLCSP-20A</p>	<p>(Bottom View)</p>	
<p>WLCSP-25A</p>	<p>(Bottom View)</p>	

Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>WLCSP-48A</p>	 <p>Top View Dimensions: 3.47 ± 0.03 (width) 3.47 ± 0.03 (height) 0.4 ± 0.025 (pitch) 0.24 ± 0.03 (lead width) 0.03 (lead thickness)</p> <p>(Bottom View) 0.32 ± 0.05 (pitch) 0.50 (lead width) 0.05 (lead thickness)</p>	 <p>Recommended Land Pattern Dimensions: 0.5 (pitch) 0.25 (lead width)</p>