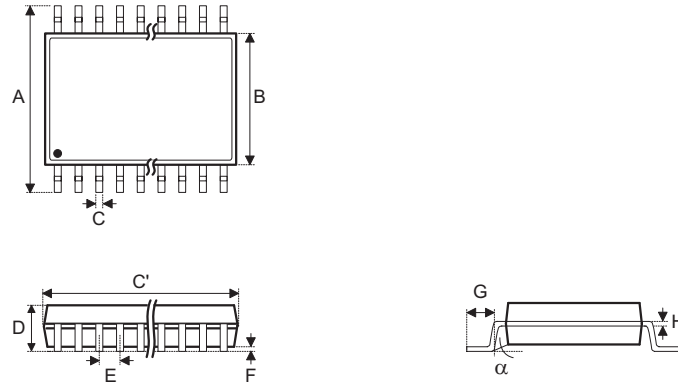


Package Information

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1. SOP Package



1.1 SOP: 150mil

Pin	Parameter (Unit: inch)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
8	0.236 BSC			0.154 BSC			0.012	—	0.020	0.193 BSC			—	—	0.069	0.050 BSC			0.004	—	0.010	0.016	—	0.050	0.004	—	0.010	0°	—	8°
10	0.236 BSC			0.154 BSC			0.012	—	0.018	0.193 BSC			—	—	0.069	0.039 BSC			0.004	—	0.010	0.016	—	0.050	0.004	—	0.010	0°	—	8°
14	0.236 BSC			0.154 BSC			0.012	—	0.020	0.341 BSC			—	—	0.069	0.050 BSC			0.004	—	0.010	0.016	—	0.050	0.004	—	0.010	0°	—	8°

Pin	Parameter (Unit: mm)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
8	6 BSC			3.9 BSC			0.31	—	0.51	4.9 BSC			—	—	1.75	1.27 BSC			0.10	—	0.25	0.40	—	1.27	0.10	—	0.25	0°	—	8°
10	6 BSC			3.9 BSC			0.30	—	0.45	4.9 BSC			—	—	1.75	1.0 BSC			0.10	—	0.25	0.40	—	1.27	0.10	—	0.25	0°	—	8°
14	6 BSC			3.9 BSC			0.31	—	0.51	8.65 BSC			—	—	1.75	1.27 BSC			0.10	—	0.25	0.40	—	1.27	0.10	—	0.25	0°	—	8°

1.2 NSOP: 150mil

Pin	Parameter (Unit: inch)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.			
16	0.236 BSC			0.154 BSC			0.012	—	0.020	0.390 BSC			—	—	0.069	0.050 BSC			0.004	—	0.010	0.016	—	0.050	0.004	—	0.010	0°	—	8°
20	0.228	0.236	0.244	0.146	0.154	0.161	0.009	—	0.012	0.382	0.390	0.398	—	—	0.069	0.032 BSC			0.002	—	0.009	0.020	—	0.031	0.008	—	0.010	0°	—	8°

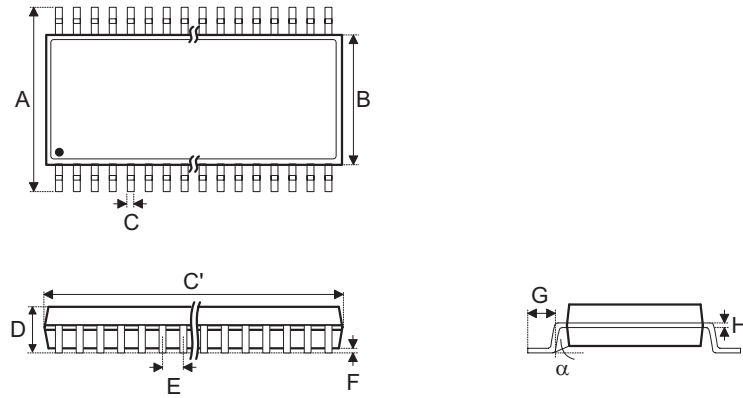
Pin	Parameter (Unit: mm)																																				
	A			B			C			C'			D			E			F			G			H			α									
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.							
16	6 BSC			3.9 BSC			0.31	—		0.51	9.9 BSC			—		—		1.75	1.27 BSC			0.10	—		0.25	0.40	—		1.27	0.10	—		0.25	0°	—		8°
20	5.80	6	6.20	3.70	3.9	4.10	0.23	—		0.30	9.70	9.9	10.10	—		—		1.75	0.8 BSC			0.05	—		0.23	0.50	—		0.80	0.21	—		0.25	0°	—		8°

1.3 SOP: 300mil

Pin	Parameter (Unit: inch)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
20	0.406 BSC			0.295 BSC			0.012	—	0.020	0.504 BSC			—	—	0.104	0.050 BSC			0.004	—	0.012	0.016	—	0.050	0.008	—	0.013	0°	—	8°
24	0.406 BSC			0.295 BSC			0.012	—	0.020	0.606 BSC			—	—	0.104	0.050 BSC			0.004	—	0.012	0.016	—	0.050	0.008	—	0.013	0°	—	8°
28	0.406 BSC			0.295 BSC			0.012	—	0.020	0.705 BSC			—	—	0.104	0.050 BSC			0.004	—	0.012	0.016	—	0.050	0.008	—	0.013	0°	—	8°

Pin	Parameter (Unit: mm)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
20	10.30 BSC			7.5 BSC			0.31	—	0.51	12.8 BSC			—	—	2.65	1.27 BSC			0.10	—	0.30	0.40	—	1.27	0.20	—	0.33	0°	—	8°
24	10.30 BSC			7.5 BSC			0.31	—	0.51	15.4 BSC			—	—	2.65	1.27 BSC			0.10	—	0.30	0.40	—	1.27	0.20	—	0.33	0°	—	8°
28	10.30 BSC			7.5 BSC			0.31	—	0.51	17.9 BSC			—	—	2.65	1.27 BSC			0.10	—	0.30	0.40	—	1.27	0.20	—	0.33	0°	—	8°

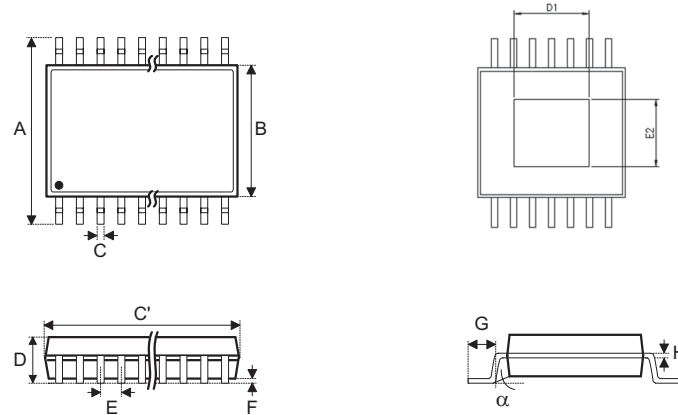
1.4 SSOP: 150mil



Pin	Parameter (Unit: inch)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
20	0.236 BSC			0.154 BSC			0.008	—	0.012	0.341 BSC			—	—	0.069	0.025 BSC			0.004	—	0.0098	0.016	—	0.05	0.004	—	0.01	0°	—	8°
24	0.236 BSC			0.154 BSC			0.008	—	0.012	0.341 BSC			—	—	0.069	0.025 BSC			0.004	—	0.0098	0.016	—	0.05	0.004	—	0.01	0°	—	8°
28	0.236 BSC			0.154 BSC			0.008	—	0.012	0.390 BSC			—	—	0.069	0.025 BSC			0.004	—	0.0098	0.016	—	0.05	0.004	—	0.01	0°	—	8°

Pin	Parameter (Unit: mm)																													
	A			B			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
20	6 BSC			3.9 BSC			0.20	—	0.30	8.66 BSC			—	—	1.75	0.635 BSC			0.10	—	0.25	0.41	—	1.27	0.10	—	0.25	0°	—	8°
24	6 BSC			3.9 BSC			0.20	—	0.30	8.66 BSC			—	—	1.75	0.635 BSC			0.10	—	0.25	0.41	—	1.27	0.10	—	0.25	0°	—	8°
28	6 BSC			3.9 BSC			0.20	—	0.30	9.9 BSC			—	—	1.75	0.635 BSC			0.10	—	0.25	0.41	—	1.27	0.10	—	0.25	0°	—	8°

2. SOP Thermally Enhanced (Exposed Pad) Package



2.1 SOP: 150mil

Pin	Parameter (Unit: inch)																																			
	A			B			D1			E2			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.			
8	0.236 BSC			0.154 BSC			0.076	—	0.118	0.075	—	0.101	0.012	—	0.020	0.193 BSC			—	—	0.069	0.050 BSC			0.000	—	0.006	0.016	—	0.050	0.004	—	0.010	0°	—	8°
10	0.236 BSC			0.154 BSC			0.102	—	0.126	0.071	—	0.090	0.012	—	0.018	0.193 BSC			—	—	0.069	0.039 BSC			0.000	—	0.006	0.016	—	0.050	0.004	—	0.010	0°	—	8°

Pin	Parameter (Unit: mm)																																			
	A			B			D1			E2			C			C'			D			E			F			G			H			α		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.			
8	6.00 BSC			3.9 BSC			1.94	—	3.00	1.90	—	2.56	0.31	—	0.51	4.9 BSC			—	—	1.75	1.27 BSC			0.00	—	0.15	0.40	—	1.27	0.10	—	0.25	0°	—	8°
10	6.00 BSC			3.9 BSC			2.59	—	3.20	1.81	—	2.28	0.30	—	0.45	4.9 BSC			—	—	1.75	1.0 BSC			0.00	—	0.15	0.40	—	1.27	0.10	—	0.25	0°	—	8°

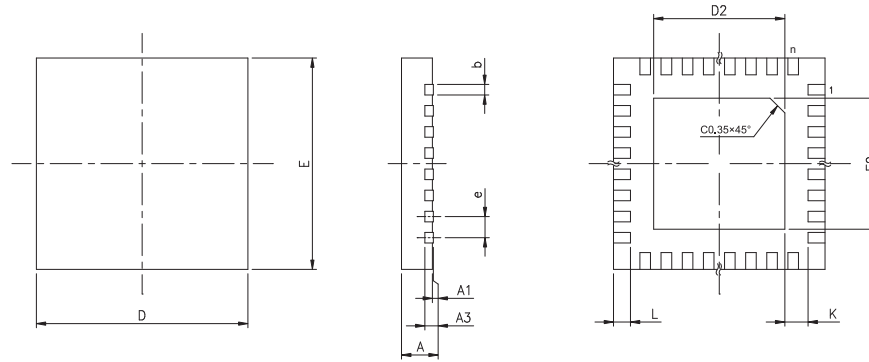
2.2 NSOP: 150mil

Pin	Parameter (Unit: inch)																																			
	A			B			D1		E2			C			C'			D			E			F			G		H		α					
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.						
16	0.236 BSC			0.154 BSC			0.152	—	0.186	0.066	—	0.101	0.012	—	0.020	0.390 BSC			—	—	0.069	0.050 BSC			0.000	—	0.006	0.016	—	0.050	0.004	—	0.010	0°	—	8°
20	0.228	0.236	0.244	0.146	0.154	0.161	0.089	—	0.136	0.084	—	0.092	0.009	—	0.012	0.382	0.390	0.398	—	—	0.069	0.032 BSC			0.002	—	0.009	0.020	—	0.031	0.008	—	0.010	0°	—	8°

Pin	Parameter (Unit: mm)																																						
	A			B			D1			E2			C			C'			D			E			F			G			H			α					
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.						
16	6 BSC			3.9 BSC			3.86	—	4.72	1.68	—	2.56	0.31	—	0.51	9.9 BSC			—			1.75			1.27 BSC			0.00	—	0.15	0.40	—	1.27	0.10	—	0.25	0°	—	8°
20	5.80	6	6.20	3.70	3.9	4.10	2.26	—	3.46	2.14	—	2.34	0.23	—	0.30	9.70	9.9	10.10	—	—	1.75		0.8 BSC			0.05	—	0.225	0.50	—	0.80	0.21	—	0.25	0°	—	8°		

3. Saw Type QFN Package

3.1 Saw Type QFN Package



Pin	Parameter (Unit: inch)																										
	A			A1			A3			b			b 1			D			E			e			e 1		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
16(3×3×0.75mm, FP0.35mm)	0.028	0.030	0.031	0.000	0.001	0.002	0.008 REF			0.007	0.010	0.012	—	—	—	0.118 BSC			0.118 BSC			0.020 BSC			—	—	—
20(4×4×0.75mm)	0.028	0.030	0.031	0.000	0.001	0.002	0.008 REF			0.008	0.010	0.012	—	—	—	0.157 BSC			0.157 BSC			0.020 BSC			—	—	—
24(3×3×0.55mm)	0.020	0.022	0.024	0.000	0.001	0.002	0.006 REF			0.006	0.008	0.010	0.014	0.016	0.018	0.118 BSC			0.118 BSC			0.016 BSC			0.020 BSC		
28(4×4×0.75mm)	0.028	0.030	0.031	0.000	0.001	0.002	0.008 REF			0.006	0.008	0.010	—	—	—	0.157 BSC			0.157 BSC			0.016BSC			—	—	—

Pin	Parameter (Unit: inch)																	
	D2			E2			L			L1			K			T		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
16(3×3×0.75mm, FP0.35mm)	0.063	—	0.069	0.063	—	0.069	0.012	0.014	0.016	—	—	—	0.008	—	—	—	—	—
20(4×4×0.75mm)	0.075	—	0.083	0.075	—	0.083	0.012	0.016	0.020	—	—	—	0.008	—	—	—	—	—
24(3×3×0.55mm)	0.073	—	0.077	0.073	—	0.077	0.006	0.010	0.014	0.008	0.010	0.012	0.008	—	—	0.000	0.002	0.004
28(4×4×0.75mm)	0.091	—	0.104	0.091	—	0.104	0.012	0.016	0.020	—	—	—	—	—	—	—	—	—

Pin	Parameter (Unit: mm)																										
	A			A1			A3			b			b 1			D			E			e			e 1		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
16(3×3×0.75mm, FP0.35mm)	0.70	0.75	0.80	0.00	0.02	0.05	0.203 REF			0.18	0.25	0.3	—	—	—	3 BSC			3 BSC			0.5 BSC			—	—	—
20(4×4×0.75mm)	0.70	0.75	0.80	0.00	0.02	0.05	0.203 REF.			0.2	0.25	0.3	—	—	—	4 BSC			4 BSC			0.5 BSC			—	—	—
24(3×3×0.55mm)	0.50	0.55	0.60	0.00	0.02	0.05	0.150 REF			0.15	0.2	0.25	0.35	0.4	0.45	3 BSC			3 BSC			0.4 BSC			0.5BSC		
28(4×4×0.75mm)	0.70	0.75	0.80	0.00	0.02	0.05	0.203 REF.			0.15	0.2	0.25	—	—	—	4 BSC			4 BSC			0.4 BSC			—	—	—

Pin	Parameter (Unit: mm)																	
	D2			E2			L			L1			K			T		
	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
16(3×3×0.75mm, FP0.35mm)	1.6	—	1.75	1.6	—	1.75	0.3	0.35	0.4	—	—	—	0.2	—	—	—	—	—
20(4×4×0.75mm)	1.9	—	2.1	1.9	—	2.1	0.3	0.4	0.5	—	—	—	0.20	—	—	—	—	—
24(3×3×0.55mm)	1.85	—	1.95	1.85	—	1.95	0.15	0.25	0.35	0.2	0.25	0.3	0.20	—	—	0	0.05	0.1
28(4×4×0.75mm)	2.3	—	2.65	2.3	—	2.65	0.3	0.4	0.5	—	—	—	—	—	—	—	—	—

4. Note

End Flash Per Side Define.

SOP & SSOP 150mil Series	QFN Series
≤ 6mil	NA

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