Package	Body Size	Material	Amkor	ASE-Korea	Remarks	
	7x7 mm	Die Attach	Ablestik 8290	Hitachi EN-4900GC		
		Wire	1.0 mil	0.8/1.0 mil		
	5x5 mm	Mold Compound	Sumitomo G700	Sumitomo G700	Same	
LFCSP		Leadframe	C194	C194	Same	
LICSF	4x4 mm	Die Attach	Ablestik 8290	Ablestik 8290	Same	
		Wire	1.0 mil	0.8/1.0 mil		
		Mold Compound	Sumitomo G700	Sumitomo G700	Same	
		Leadframe	C194	C194	Same	





Package	Body Size	Material	Amkor	ASE-Korea	Remarks
	7x7 mm	Die Attach	Ablestik 8290	Hitachi EN-4900GC	
		Wire	1.0 mil	0.8/1.0 mil	
	5x5 mm	Mold Compound	Sumitomo G700	Sumitomo G700	Same
LFCSP		Leadframe	C194	C194	Same
LFCSF	4x4 mm	Die Attach	Ablestik 8290	Ablestik 8290	Same
		Wire	1.0 mil	0.8/1.0 mil	
		Mold Compound	Sumitomo G700	Sumitomo G700	Same
		Leadframe	C194	C194	Same

## Reliability Qualification Results of 3x3 sawn LFCSP package at ATP

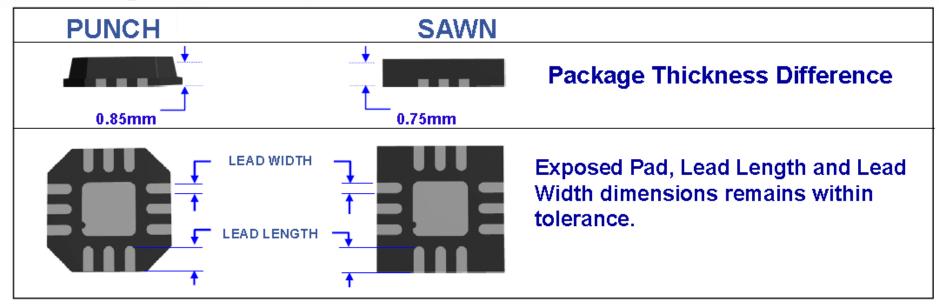
QUALIFICATION RESULTS						
TEST	CONDITIONS	SAMPLE SIZE	RESULTS			
Highly Accelerated Stress Test (HAST)*	JEDEC JESD22-A110	3 x 77	Pass			
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 77	Pass			
Autoclave (AC)*	JEDEC JESD22-A102	3 x 77	Pass			
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3 x 11	Pass			

<sup>\*</sup>These samples were subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 1 preconditioning consists of the following: Bake: 24 hrs @ 125°C, Soak: Unbiased Soak: 192 hrs @ 30°C, 60%RH, Reflow: 3 passes through an oven with a peak temperature of 260°C.

## Bill of Materials and Package Configuration

Material	FROM	то	Remarks	
	Amkor - Korea	Amkor - Philippines		
Die Attach	Ablestik 8290	Ablestik 8290	Same	
Wire	Au	Au	Same	
Mold Compound	Sumitomo G700	Sumitomo G700	Same	
Leadframe	C194	C194	Same	
<u>Package</u> : Side			<u>Punch</u> : Flange <u>Sawn</u> : Square	
Тор	ANALOG DEVICES DEVICE PUNCH	ANALOG DEVICES  DEVICE SAWN	Sawn: Pin 1 is Laser Marked Square Edge	
Bottom			Same Foot Print	

## Package Dimensions



Body Size (mm)	Lead Count	Lead Pitch (mm)	Punch LFCSP POD	Sawn LFCSP POD	Exposed Pad Size (mm)
	8	0.5	CP 8-2	CP 8-13	1.74 x 1.45
			CP 8-9	CP 8-20	2.13 x 1.5
0 0	12	0.5	CP 12-1	CP 12-4	1.3 x 1.3
3 x 3			CP 12-3	CP 12-5	1.5 x 1.5
	16	0.5	CP 16-2	CP 16-21	1.3 x 1.3
			CP 16-3	CP 16-27	1.5 x 1.5

## Package Outline Drawing (POD) Dimensional Analysis

	Punch Type LFCSP				Sawn Type LFCSP				
Lead Count	POD Spec	E-Pad Size (mm)	Lead Length (mm)	Lead Width (mm)	POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)	
8 -	CP 8-2	1.74 x 1.45 ± 0.15	0.40 ±0.10	<b>0.23</b> +0.07 - 0.05	CP 8-13	1.74 x 1.45 ± 0.10	<b>0.40</b> ± 0.10	0.25 ±0.05	
8	CP 8-9	2.13 x 1.50 ± 0.10	0.40 ±0.10	<b>0.23</b> +0.07 - 0.05	CP 8-20	2.13 x 1.5 ± 0.10	<b>0.40</b> ± 0.10	<b>0.23</b> +0.07 - 0.05	
12	CP 12-1	1.3 x 1.3 ± 0.15	<b>0.60</b> +0.15 - 0.10	<b>0.23</b> +0.07 - 0.05	CP 12-4	1.3 x 1.3 ± 0.15	<b>0.60</b> ± 0.10	<b>0.23</b> +0.07 - 0.05	
	CP 12-3	1.5 x 1.5 ± 0.15	<b>0.60</b> +0.15 - 0.10	<b>0.23</b> +0.07 - 0.05	CP 12-5	1.5 x 1.5 ± 0.15	<b>0.40</b> ± 0.10	<b>0.23</b> +0.07 - 0.05	
16	CP 16-2	1.3 x 1.3 ± 0.15	0.40 ±0.10	<b>0.23</b> +0.07 - 0.05	CP 16-21	1.3 x 1.3 ±0.15	<b>0.40</b> ± 0.10	<b>0.23</b> +0.07 - 0.05	
	CP 16-3	1.5 x 1.5 ± 0.15	0.40 ±0.10	<b>0.23</b> +0.07 - 0.05	CP 16-27	1.5 x 1.5 +0.15 - 0.05	<b>0.40</b> ± 0.10	<b>0.25</b> +0.05 - 0.07	