Bill of Materials

Package	Body Size	Material	Amkor	ASE-Korea	Remarks
LFCSP -	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
		Leadframe	C194	C194	Same
	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 Outline (Punch and Sawn LFCSP)

COMPARISON	CURRENT	NEW	REMARKS
Package	Punch	Sawn	
Figure		THE PERSON	Punch has flange edges. Sawn has sharp square edges.
Thickness	0.85 mm (Nom.)	0.75 mm (Nom.)	Sawn is Thinner
Foot Print			Lead width and length dimensions and tolerances are the same.

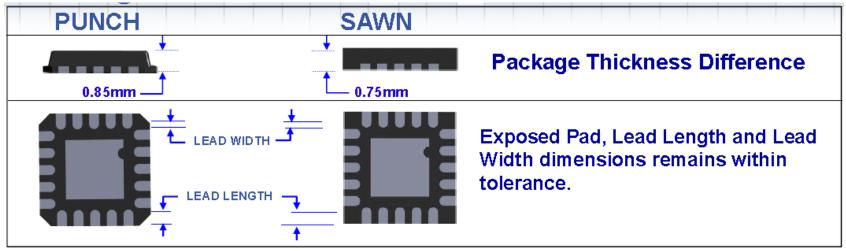
Bill of Material and Package Configuration

Material	FROM	то	Remarks	
Material	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)
	16	0.65	CP 16-16	CP 16-34	1.8 x 1.8
			CP 16-4	CP 16-23	2.3 x 2.3
			CP 16-10	CP 16-20	2.35 x 2.35
			CP 16-13	CP 16-26	2.5 x 2.5
	20	0.5	CP 20-1	CP 20-6	2.1 x 2.1
4 x 4			CP 20-3	CP 20-7	2.3 x 2.3
			CP 20-4	CP 20-10	2.5 x 2.5
	24	0.5	CP 24-1	CP 24-10	2.1 x 2.1
			CP 24-13 CP 24-2	CP 24-14	2.3 x 2.3
			CP 24-3	CP 24-7	2.5 x 2.5

Reliability Qualification Results of 4x4 sawn LFCSP package at ATP

QUALIFICATION RESULTS				
TEST	CONDITIONS	SAMPLE SIZE	RESULTS	
Highly Accelerated Stress Test (HAST)*	JEDEC <i>JESD</i> 22-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	

^{*}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.

