Bill of Materials

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





Package Outline (Punch & Sawn LFCSP)

COMPARISON	CURRENT	NEW	REMARKS
Package	Punch	Sawn	
Figure		Manual Reserves	Punch has flange edges. Sawn has sharp square edges.
Thickness	0.85 mm (Nom.)	0.75 mm (Nom.)	Sawn is Thinner
	1		
Foot Print			Lead width and length dimensions and tolerances are the same.

Bill of Materials and Package Configuration

Material	FROM	то	Remarks	
Waterial	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	
Package: 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 Outline Drawing (POD) Dimensional Analysis

Body Size (mm)		Punch Type LFCSP			Sawn Type LFCSP				
	Lead Count	POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)	POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)
6 x 6	36	CP 36-1	3.7 ± 0.15	0.60 +0.15 - 0.10	0.28 +0.07 - 0.05	CP 36-4	3.7 +0.15 -0.10	0.60 +0.15 - 0.10	0.23 +0.07 - 0.05
	40	CP 40-8	3.1 ± 0.15	0.40 ±0.10	0.23 +0.07 - 0.05	CP 40-16	3.1 ±0.15	0.40 ±0.10	0.23 +0.07 - 0.05
		CP 40-1	4.1 ± 0.15	0.40 ±0.10	0.23 +0.07 - 0.05	CP 40-9	4.1 ±0.15	0.40 ±0.10	0.25 +0.05 - 0.07
7 x 7	48	CP 48-3	4.1 ± 0.15	0.40 ±0.10	0.23 +0.07 - 0.05	CP 48-5	4.1 ±0.15	0.40 ±0.05	0.23 +0.07 - 0.05
		CP 48-1	5.1 ± 0.15	0.40 ±0.10	0.23 +0.07 - 0.05	CP 48-10	5.1 ±0.10	0.40 ±0.05	0.23 +0.07 - 0.05

Processor Converters

Reliability Qualification Report Summary of LFCSP package at ATP

QUALIFICATION RESULTS OF LFCSP						
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			

^{*}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. TCT samples passed wire-pull test post 500cycles.