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

ACP CONVERSION CONVERSIONS

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Package Outline (Punch and Sawn LFCSP)

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

Package Outline Drawing of Punch Type and Corresponding Sawn Type

Body Size (mm)	Lead Count	E-Pad Size (mm)	Punch Type POD	Sawn Type POD
4×4	20	2.10x2.10	CP-20-1	CP-20-6
5x5	32	3.10x3.10	CP-32-2	CP-32-7
7x7	48	4.10x4.10	CP-48-3	CP-48-5

NOTE: POD drawing are found in http://www.analog.com



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Reliability Qualification Results of 5x5 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	

*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 @ 125ºC, Soak: Unbiased Soak: 192 hrs @ 30ºC, 60%RH, Reflow: 3 passes through an oven with a peak temperature of 260ºC.