Material Set Change:

Package Material Set		Carsem	Amkor	
SSOP	Die Attach	Ablestik 84-1LMISR4	Ablestik 8290	
	Mold Compound	Sumitomo 6600 Sumitomo G600	Sumitomo G700LS	

Automotive Grade 1 Qualification Results Summary of 8- and 10-Lead MSOP Package at Amkor Philippines (ATP)

QUALIFICATION RESULTS						
TEST	SPECIFICATION	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			
High Temperature Storage Life (HTSL)	JEDEC JESD22-A103	1 x 77	Pass			
Electrostatic Discharge Field-Induced Charged Device Model	JEDEC JESD22-C101	3/voltage	Pass Class IV @ +/-1.250kV			

^{*} These samples were subjected to preconditioning (per J-STD-020 Level 1) prior to the start of the stress test. Level 3 preconditioning consists of the following: 1. Bake – 24 hours at 125°C; 2. Soak – unbiased soak for 168 hours at 85°C, 85%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260°C. TC samples were subjected to wire-pull test after 500 cycles with results within specification limits.

Qualification Results Summary of 8- and 10-Lead MSOP Package at Amkor Philippines (ATP)

QUALIFICATION RESULTS						
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS			
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High Temperature Storage Life (HTSL)	JEDEC JESD22-A103	1 x 77	Pass			
Electrostatic Discharge Field-Induced Charged Device Model	JEDEC JESD22-C101	3/voltage	Pass Class IV @ +/-1.250kV			

^{*}Preconditioned per JEDEC/IPC J-STD-020