Automotive Qualification Results Summary for ADuM1300W/ADuM1301W Die Revision, Assembly Site Transfer, Data Sheet and MLS Rating Change

QUALIFICATION PLAN / STATUS				
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS	
High Temperature Operating Life (HTOL)*	JEDEC JESD22-A108	8x77 1x45	Pass	
Highly Accelerated Stress Test (HAST)*	JEDEC JESD22-A110	9x77	Pass	
Temperature Cycle (TC)*	JEDEC JESD22-A104	9x77	Pass	
Autoclave (AC)*	JEDEC JESD22-A102	9x77	Pass	
High Temperature Storage Life (HTSL)	JEDEC JESD22-A103	9x77	Pass	
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3x10	Pass	
Latch-Up	JEDEC JESD78	1x9	Pass ±100mA @ +8.25V	
Electrostatic Discharge Human Body Model	ESDA/JEDEC JS-001	1x18	Pass ±4000V	
Electrostatic Discharge Field-Induced Charged Device Model	JEDEC JESD22-C101	1x18	Pass ±1250V	

^{*} Pre- and post-stress electrical test was performed at room and hot temperatures. These samples were subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: Bake: 24 hrs @ 125°C, Unbiased Soak: 192 hrs @ 30°C, 60%RH, Reflow: 3 passes through an oven with a peak temperature of 260°C.

Material Set Change:

Package Material	kage Material Set Carsem		ASE Chungli	
SOIC_W	Die Attach	Ablestik 84-1LMISR4	Hitachi EN4900GC	
	Mold Compound	Sumitomo 6600H	Sumitomo G700LY	
	Wire	1.3 mil Gold Wire	1.3mil Gold Wire	