

Automotive Qualification Results Summary for ADuM1200W/ADuM1201W Die Revision, Assembly Site Transfer, Test Platform Migration and MSL Rating Change

QUALIFICATION PLAN / STATUS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
High Temperature Operating Life (HTOL)* ²	JEDEC <i>JESD22-A108</i>	9 x 77	Pass
Highly Accelerated Stress Test (HAST)* ¹	JEDEC <i>JESD22-A110</i>	9 x 77	Pass
Temperature Cycle (TC)* ¹	JEDEC <i>JESD22-A104</i>	9 x 77	Pass
Unbiased HAST* ¹	JEDEC <i>JESD22-A118</i>	9 x 77	Pass
High Temperature Storage Life (HTSL) ¹	JEDEC <i>JESD22-A103</i>	2 x 77 7 x 45	Pass
Solder Heat Resistance (SHR)* ¹	JEDEC/IPC <i>J-STD-020</i>	3 x 10	Passed
Latch-Up ¹	JEDEC <i>JESD78</i>	1 x 18	Passed ±200mA @+8.25V
Electrostatic Discharge <i>Human Body Model</i> ¹	ESDA/JEDEC <i>JS-001</i>	3/voltage	Passed ±4000V
Electrostatic Discharge <i>Field-Induced Charged Device Model</i> ¹	JEDEC <i>JESD22-C101</i>	3/voltage	Passed ±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.

¹ Electrical test was performed at Room/Hot/HV First&Last.

² Electrical test was performed at Cold/Room/Hot/HV First&Last