

Automotive Qualification Results Summary of ADM487E Automotive Grade 3 Transfer to ADLK Fab

QUALIFICATION RESULTS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
Autoclave (AC) ^{1,2}	JEDEC <i>JESD22-A102</i>	3*77	Pass
Highly Accelerated Stress Test (HAST) ^{1,2}	JEDEC <i>JESD22-A110</i>	3*77	Pass
Temperature Cycle (TC) ^{1,2}	JEDEC <i>JESD22-A104</i>	3*77	Pass
Solder Heat Resistance (SHR) ^{1,2}	JEDEC/IPC <i>J-STD-020</i>	3*11	Pass
High Temperature Storage Life (HTSL) ²	JEDEC <i>JESD22-A103</i>	1*45	Pass
High Temperature Operating Life (HTOL) ^{1,2}	JEDEC <i>JESD22-A108</i>	3*77	Pass
Early Life Failure (ELF) ²	AEC <i>AEC-Q100-008</i>	3*800	Pass
Electrostatic Discharge ² <i>Field-Induced Charged Device Model</i>	JEDEC <i>JESD22-C101</i>	3/voltage	Pass 1250V
Electrostatic Discharge ² <i>Human Body Model</i>	ESDA/JEDEC <i>JS-001</i>	3/voltage	Pass 1500V
Latch Up ²	JEDEC <i>JESD78</i>	3/current	Pass 150mA

¹ 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.

² These samples were tested per AECQ-100.