

Qualification Results Summary of LTM4686 Assembled with Sumitomo G311E Mold Compound

QUALIFICATION PLAN / STATUS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i> -55°C to +125°C 1000 cycles	231	Pass
Thermal Shock*	JEDEC <i>JESD22-A106</i> -55°C to +125°C 1000 cycles	231	Pass
Unbiased HAST*	JEDEC <i>JESD22-A118</i> +130°C/85% RH 96 hours	231	Pass
High Temperature Storage Life (HTSL)	JEDEC <i>JESD22-A103</i> +150°C 1000 hours	135	Pass
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i> <i>MSL 4</i> <i>+260°C Peak</i>	693	Pass

* These samples were subjected to preconditioning (per J-STD-020 Level 4) prior to the start of the stress test. Level 4 preconditioning consists of the following: 1. Bake – 24 hours at 125°C; 2. Soak – unbiased soak for 96 hours at 30°C, 60%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260°C.