Assembly Relocation to Select LQFP, LQFP_EP, MQFP, TQFP, TQFP_EP Products to STATS ChipPAC China Jiangyin

Automotive Qualification Results Summary for LQFP at STATS ChipPAC China Jiangyin

Test	SPECIFICATION	SAMPLE SIZE	RESULTS
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 77	PASS
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3 x 11	PASS
Highly Accelerated Stress Test (HAST)*	JEDEC JESD22-A110	3 x 77	PASS
Unbiased Highly Accelerated Stress Test (uHAST)*	JEDEC JESD22-A118	3 x 77	PASS
High Temperature Storage (HTS)	JEDEC JESD22-A103	1 x 77	PASS
Electrostatic Discharge Field Induced Charge Device Model – All Pins	JEDEC JESD22-C101	3/voltage	PASS ±500V
Electrostatic Discharge Field Induced Charge Device Model – Corner Pins	JEDEC JESD22-C101	3/voltage	PASS ±750V

^{*} 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: 1. Bake – 24 hours at 125°C; 2. Soak – unbiased soak for 192 hours at 30°C, 60%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 where results passed within specification limits.

Assembly Relocation to Select LQFP, LQFP_EP, MQFP, TQFP, TQFP_EP Products to STATS ChipPAC China Jiangyin

Automotive Qualification Results Summary for LQFP_EP and MQFP at STATS ChipPAC China Jiangyin

Test	SPECIFICATION	SAMPLE SIZE	RESULTS
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 32	PASS
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	3 x 11	PASS
Temperature, Humidity and Bias (THB)*	JEDEC JESD22-A101	3 x 32	PASS
Unbiased Highly Accelerated Stress Test (uHAST)*	JEDEC JESD22-A118	3 x 32	PASS
High Temperature Storage (HTS)	JEDEC JESD22-A103	1 x 32	PASS
Electrostatic Discharge Field Induced Charge Device Model – All Pins	JEDEC JESD22-C101	3/voltage	PASS ±500V
Electrostatic Discharge Field Induced Charge Device Model – Corner Pins	JEDEC JESD22-C101	3/voltage	PASS ±750V

^{*} 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: 1. Bake – 24 hours at 125°C; 2. Soak – unbiased soak for 192 hours at 30°C, 60%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 where results passed within specification limits.

Assembly Relocation of Select LQFP, LQFP_EP, MQFP, TQFP, TQFP_EP Products to STATS ChipPAC China Jiangyin

Qualification Results Summary for TQFP and TQFP_EP at STATS ChipPAC China Jiangyin

TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 32	PASS
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3 x 11	PASS
Unbiased Highly Accelerated Stress Test (uHAST)*	JEDEC JESD22-A118	3 x 32	PASS
Electrostatic Discharge Field Induced Charge Device Model	JEDEC JESD22-C101	3/voltage	PASS ±1250V

^{*} Preconditioned per JEDEC/IPC J-STD0020.