

## Assembly Site Transfer of Select LFCSP Products to UTAC Thailand

### Qualification Plan Summary for Automotive Grade Sawn 12x12 LFCSP at UTAC Thailand

TEST	SPECIFICATION	SAMPLE SIZE	EXPECTED COMPLETION DATE
Temperature Cycle (TC)*	JEDEC <i>JESD22-A104</i>	3 x 77	Sep 2021
Solder Heat Resistance (SHR)*	JEDEC/IPC <i>J-STD-020</i>	3 x 11	Sep 2021
Temperature, Humidity and Biased Test (HAST)*	JEDEC <i>JESD22-A101</i>	3 x 77	Sep 2021
High Temperature Storage (HTS)	JEDEC <i>JESD22-A103</i>	1 x 45	Sep 2021
Unbiased Highly Accelerated Stress Test (UHAST)*	JEDEC <i>JESD22-A118</i>	3 x 77	Sep 2021

\* These samples will be 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 will be subjected to wire-pull test after 500 cycles where results should be within specification limits.