

Reliability Report

Part Number: SMAZ24-TP

Date: 2020-8-16

Test Results

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T _a = 25 °C	N/A	all parts	see below
PC Preconditioning	JESD22A-113 Bake T _a = 125 °C Soak T _a = 85 °C, RH = 85% Reflow soldering	24 hours 168 hours 3 cycles	308Pcs * 3Lot	0
SSOP Steady State Operational	MIL-STD-750-1M1038 T _a = 25±5 °C, PD=Max(Izm=PD/VZ)	1000 hours	77Pcs * 3Lot	0
TC Temperature Cycling	JESD22-A104 -55 °C to T _{jmax}	1000 cycles	77Pcs * 3Lot	0
AC Autoclave	JESD22-A102 T _a = 121 °C, RH = 100 % Pressure = 2atm	96 hours	77Pcs * 3Lot	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T _a = 85 °C, RH = 85%, V _R > 80 % of VZ	1000 hours	77Pcs * 3Lot	0
ESD Human Body Model	JESD22-A114 4 KV	N/A	30Pcs * 1Lot	0
RSH Resistance to Solder Heat	JESD22-A111 / JESD22-B106 260 °C ± 5 °C	10 s	30Pcs * 3Lot	0
SD Solderability	J-STD-002 245 °C ± 5 °C	3 s	10Pcs * 3Lot	0
LTSL Low Temperature Storage Life	JESD22-A119 T _a ≤ -55 °C	1000 hours	32Pcs * 3Lot	0
HTSL High Temperature Storage Life	JESD22-A103 T _a ≥ 150 °C	1000 hours	77Pcs * 3Lot	0