

CONSUMER LEVEL QUALIFICATION REQUIREMENTS FOR MCM PRODUCTS¹

Stress Test	Conditions	Duration	QFN Qty	IPowIR Qty	IPM Qty	MER Qty
Preconditioning	Minimum MSL 3 required per JESD22-A113	N/A	2X77	2X77	N/A	N/A
Temp Cycle	-40°C to 125°C, or -65°C/150°C 30 minute cyc, no bias	500 or 250 Cy	3X77	3X77	8x3	3X77
THB	85°C/85%RH, bias	500 Hr	3X77	NA	8x3	3X77
HTSL	Ta=150°C or Ta=175°C, No Bias	500 Hr or 250 Hr	3X77	3X77	8x3	N/A
LTSL	Ta=-40°C, no bias	168 Hr	N/A	N/A	8x3	N/A
IOL	Delta Tj = 90C, not to exceed Hottest die Tjmax	10,000 cycles	3X77	40	8x3	3X77
HTOL/HTB	Tj=max rated (150°C) or Tj=max rated (125°C), bias	336 Hr or 500 Hr	3X77	40	8x3 ²	N/A

1 – Family data may be used to qualify one or more products

2- HTOL Not Required for IPM products unless requested

PRECONDITIONING REQUIREMENTS

Minimum MSL3 preconditioning per JESD22-A113 is required for surface mount capable devices that are put on TC and THB/HAST.

FAILURE CRITERIA

All devices parameters must pass the data sheet specification requirements