QUALIFICATION PLAN SUMMARY

PCN #: DSNO-09GUUD527

Date:
September 11, 2025

Qualification of MMT as an additional assembly site for selected SST26WF016B, SST26WF016BA, SST26WF080B, SST26WF080BA, SST26WF040B, SST26WF040BA, SST26VF032B, SST26VF032BA, SST26WF064C, SST26VF064BEUI, SST26VF016B, SST26VF080A, SST26VF040A, SST26VF020A, SST25VF080B, SST25VF020B, SST25VF040B, SST26VF064B, SST26VF064BA and SST25PF020B device families available in 8L WSON (6x5x0.8mm) package. This is Q006 Grade 1 qualification.

Purpose: **Qualification of MMT as an additional assembly site for selected SST26WF016B, SST26WF016BA, SST26WF080B, SST26WF080BA, SST26WF040B, SST26WF040BA, SST26VF032B, SST26VF032BA, SST26WF064C, SST26VF064BEUI, SST26VF016B, SST26VF080A, SST26VF040A, SST26VF020A, SST25VF080B, SST25VF020B, SST25VF040B, SST26VF064B, SST26VF064BA and SST25PF020B device families available in 8L WSON (6x5x0.8mm) package. This is Q006 Grade 1 qualification.**

CCB No.: **7830**

Misc.	Assembly site	MMT
	BD Number	BD-003648-01
	MP Code (MPC)	S01029U3XV01
	Part Number (CPN)	SST26VF064B-104V/MF70SV01
	MSL information	MSL-1@260C°
	Assembly Shipping Media (T/R, Tube/Tray)	Tube
	Base Quantity Multiple (BQM)	98
	Reliability Site	MTAI
Lead-Frame	Paddle size	150x173
	Material	A194
	DAP Surface Prep	Bare Cu
	Treatment	Roughening LF
	Process	Etched LF
	Lead-lock	Dimple
	Part Number	10100878
	Lead Plating	Matte Tin
Bond Wire	Material	CuPdAu
Die Attach	Part Number	QMI519 (PFAS Free)
	Conductive	Yes
MC	Part Number	G700LTD
PKG	Package Type	WSON
	Pin/Ball Count	8
	PKG width/size	6x5x0.8mm

Test Name	Conditions	Reliability Stress Read Point Grade 1: -40°C to +125°C (MCHP E Temp)	Pre & Post Reliability Stress Test Temperature Grade 1: -40°C to +125°C (MCHP E Temp)	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Standard Pb-free Solderability	J-STD-002D ; Perform 8 hours of steam aging for Matte tin finish and 1 hour steam aging for NiPdAu finish prior to testing. Standard Pb-free: Matte tin/ NiPdAu finish, SAC solder, wetting temp 245°C for both SMD & through hole packages.			22	5	1	27	>95% lead coverage	5	Standard Pb-free solderability is the requirement.
Wire Bond Pull - WBP	Mil. Std. 883-2011			5	0	1	5	0 fails after TC	5	30 bonds from a min. 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001			5	0	1	5	0	5	30 bonds from a min. 5 devices.
Physical Dimensions	Measure per JESD22 B100 and B108			10	0	3	30	0	5	
External Visual	Mil. Std. 883-2009/2010			All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	JESD22-A103 +125°C, +150°C or +175°C *2x Stress*	1st Readpoint: Grade 1: 500 hrs (+175°C) or 1000 hrs (150°C) 2nd Readpoint: Grade 1: 1000 hrs (+175°C) or 2000 hrs (150°C)	Grade 1: +25°C, +85°C, +125°C	45	5	3	150	0	21 - 167	Perform per the requirements in AEC-Q100/Q101. Spares should be properly identified.
Preconditioning - Required for surface mount devices	J-STD-020 JESD22-A113 +150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020E for package type.		Grade 1: +25°C, +85°C, +125°C	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, uHAST, Temp Cycle test.
HAST	JESD22-A101 or A110 +130°C/85% RH for 96 hrs or +110°C/85%RH for 264 hrs *2x Stress*	1st Readpoint: Grade 1: 96 hrs (+130°C/85% RH) or 264 hrs (+110°C/85%RH) 2nd Readpoint: Grade 1: 192 hrs (+130°C/85% RH) or 528 hrs (+110°C/85%RH)	Grade 1: +25°C, +85°C, +125°C	77	5	3	246	0	10 - 22	Perform per the requirements in AEC-Q006. Spares should be properly identified. Use the parts which have gone through Pre-conditioning. .
uHAST	JESD22-A102, A118, or A101 +130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs	Grade 1: 96 hrs (+130°C/85% RH) or 264 hrs (+110°C/85% RH)	Grade 1: +25°C	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	JESD22-A104 -55ºC to +125ºC, -55ºC to +150ºC *2x Stress*	1st Readpoint: Grade 1: 1000 cycles (-55ºC to +150ºC) 2nd Readpoint: Grade 1: 2000 cycles (-55ºC to +150ºC)	Grade 1: +25°C,+85°C, +125°C	77	5	3	246	0	15 - 120	Perform per the requirements in AEC-Q006. Spares should be properly identified. Use the parts which have gone through Pre-conditioning.