

Qualification Report

Approve Date 12-Dec-2019

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

	Type	Test Name / Condition	Duration	Qual Device: <u>TAS2564YBG</u>	QBS Device <u>TAS2562YFR</u>
	MSL	Precon Level 1 - WCSP/DSBGA	Level 1-260C	1/84/0	-
	ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	-
	HBM	ESD - HBM	3000 V	1/3/0	-
	CDM	ESD - CDM	1000 V	1/3/0	-
	LU	Latch-up	Per JESD78	1/6/0	-
	HTOL	Life Test, 150C	300 Hours	1/77/0	-
	HTOL	Life Test, 140C	500 Hours	-	3/77/0
	HTSL	High Temp Storage Bake 170C	420 Hours	1/77/0	-
	SBS	Bump-Shear	Bumps	1/36/0	-
	TC	Temperature Cycle -65/150C	500 Cycles	-	3/77/0
	UHA	Unbiased HAST 130C / 85% RH	96 Hours	-	3/77/0
	HAST	HAST 110C/85%RH	264 Hours	-	3/77/0

- QBS: Qual By Similarity

- Qual Device TAS2564YBG is qualified at LEVEL1-260C

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free(SMT) and Green

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