



Qualification Report

AMC7932PHP/AMC7932FPHPT

Approve Date 24-May-2019

Update 07/25/2019-Added QBS Data

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: AMC7932FPHPT	Qual Device: AMC7932PHPT	QBS Process Reference: CD3257A0YFPR	QBS Process Reference: LMG1020YFF	QBS Package Reference: DRV3205QPHPQ1	QBS Package Reference: DRV8305NEPHPQ1
AC	Autoclave 121C	96 Hours	-	-	-	-	1/77/0	3/231/0
ED	Auto Electrical Distributions	Cpk>1.67 Room, Hot, & Cold	-	-	-	-	3/90/0	3/90/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	-	-	Pass	-	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-	-	2/1600/0	-
ELFR	Early Life Failure Rate, 150C	48 Hours	-	-	-	-	-	3/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-	2/154/0	3/231/0
HBM	ESD - HBM	1300 V	1/3/0	-	-	-	-	-
CDM	ESD - CDM	1500 V	1/3/0	1/3/0	-	-	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	2/154/0	1/77/0	-
HTOL	Life Test, 150C	1000 Hours	-	-	-	-	-	3/231/0
HTOL	Life Test, 150C	300 Hours	1/77/0	-	-	-	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	1/77/0	-	1/77/0	-	-	-
HTSL	High Temp. Storage Bake, 175C	1000 Hours	-	-	-	-	-	3/177/0
HTSL	High Temp. Storage Bake, 175C	500 Hours	-	-	-	-	1/45/0	-
LU	Latch-up, 125C	(per JESD78)	1/6/0	1/6/0	-	-	-	-
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	1/6/0	1/6/0	2/12/0	1/6/0
TC	Temperature Cycle, -55/125C	1000 Cycles	-	-	3/231/0	1/77/0	-	-
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	3/230/0	1/77/0	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	-	-	-	1/77/0	3/231/0
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	1/77/0	-	3/231/0	1/77/0	-	-
WBP	Bond Pull	Wires	-	-	-	-	1/76/0	-
WBS	Bond Shear	Wires	-	-	-	-	1/76/0	-

- QBS: Qual By Similarity

- Qual Device AMC7932PHPT is qualified at LEVEL3-260C

- Qual Device AMC7932FPHPT is qualified at LEVEL3-260C

- 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

TI Qualification ID: 20190227-128799

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