Product Qualification Report

CYPM1115-48LQXIT

USB-PD

Description

This product qualification report describes the characteristics of the product with respect to quality and reliability.

The qualification sample selection was done on production lots which were manufactured and tested on standard production processes and meet the defined requirements.

The qualification test results of those products as outlined in this document are based on **JEDEC** for target applications and may reference existing qualification results of similar products. Such referencing is justified by the structural similarity of the products.

Qualification Assessment

Qualified according to **JEDEC Standard** and assessed as PASS

For further information about comparable products, please contact the nearest Infineon Technologies office (www.infineon.com).

CYPM1115-48LQXIT **qualified in 2023**
PG-VQFN-48
MSL: 3; 260°C

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Biased Highly Accelerated Stress Test JESD22-A110	HAST*	Ta = 130°C RH = 85%	96 h	3 x 25	0 / 75	PASS
High Temperature Operating Life JESD22-A108	HTOL	Ta = 125°C	500 h	2 x 77	0 / 154	PASS
ESD (HBM) JS-001	HBM	Class 2 (2000 V to < 4000 V)	-	-	-	PASS
ESD (CDM) JS-002	CDM	Class C2a (500 V to < 750 V)	-	-	-	PASS

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Pre-conditioning J-STD-020 / JESD22-A113	PC	MSL and 3 x reflow		3 x 240	0 / 720	PASS
Temperature Cycling JESD22-A104	TC*	-65°C to +150°C	500 cyc	3 x 77	0 / 231	PASS
Unbiased Highly Accelerated Stress Test JESD22-A118	UHAST*	Ta = 130°C RH = 85%	96 h	3 x 77	0 / 231	PASS
High Temperature Storage Life JESD22-A103	HTSL*	Ta = 150°C	1000 h	1 x 77	0 / 77	PASS

Notes:
* For SMD devices reliability stress tests performed after preconditioning test (PC) according to JESD22

Trademarks
All referenced product or service names and trademarks are the property of their respective owners.

Published by

Infineon Technologies AG

81726 München, Germany

© 2024 Infineon Technologies AG. All Rights Reserved.

Do you have a question about this document?

Email: **erratum@infineon.com**

Document reference
n.a.

IMPORTANT NOTICE
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffenheitsgarantie").

With respect to any examples, hints or any typical values stated herein and/or any information regarding the application of the product, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer's compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer's products and any use of the product of Infineon Technologies in customer's applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer's technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

For further information on the product, technology delivery terms and conditions and prices please contact your nearest Infineon Technologies office (**www.infineon.com**).

WARNINGS
Due to technical requirements products may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by Infineon Technologies in a written document signed by authorized representatives of Infineon Technologies, Infineon Technologies' products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.