# Product Qualification Report

# CYPD7198-39BFXS

USB-C AUTO

## 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 **AEC Q100** 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

Fully qualified according to **AEC Q100** and assessed as PASS

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

**CYPD7198-39BFXS** **qualified in 2025**
**PG-TFLGA-39**
**MSL: 3; 260°C**

**Electrical Stress Test Results:**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| Biased Highly Accelerated Stress Test<br>JESD22-A110 | HAST* | Ta = 130°C<br>RH = 85% | 96 h | 3 x 77 | 0 / 231 | PASS |
| High Temperature Operating Life<br>JESD22-A108 | HTOL | Ta = 125°C | 1000 h | 3 x 77 | 0 / 231 | PASS |
| ESD (HBM)<br>AEC-Q100-002 | HBM | Class 2<br>( 2000 V to < 4000 V ) | - | - | - | PASS |
| ESD (CDM)<br>AEC-Q100-011 | CDM | Class C2a<br>( 500 V to < 750 V ) | - | - | - | PASS |

**Environmental Stress Test Results:**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| Pre-conditioning<br>J-STD-020 / JESD22-A113 | PC | MSL and 3 x reflow | | 3 x 330 | 0 / 990 | PASS |
| Temperature Cycling<br>JESD22-A104 | TC* | -65°C to +150°C | 500 cyc | 3 x 77 | 0 / 231 | PASS |
| Unbiased Highly Accelerated Stress Test<br>JESD22-A118 | UHAST* | Ta = 130°C<br>RH = 85% | 96 h | 3 x 77 | 0 / 231 | PASS |
| High Temperature Storage Life<br>JESD22-A103 | HTSL* | Ta = 150°C | 1000 h | 3 x 45 | 0 / 135 | PASS |

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

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**Published by**
**Infineon Technologies AG**
**81726 München, Germany**

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**Document reference**
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