



FIT reports - CTRR

Failure in Time (FIT) - Chip Technology Reliability Reports (CTRR)

CTRRs are reliability FIT reports on technology level that are provided for Infineon products. The FIT reports are created according to JEDEC standard JESD85A, which defines FIT (failure in time) as:

The number of failures per 10⁹ device-hours. Typically used to express the failure rate. Similarly, it can be defined as 1 PPM per 1000 hours of operation or one failure per 1000 devices run for one million hours of operation.

Please note that the direct conversion of FIT to ppm is not possible as FIT is a time-dependent value. FIT to ppm conversion requires the actual operating hours of the respective product in the field, e.g. based on a mission profile.

Infineon uses product qualification and product monitoring data for FIT calculation. Typical stress tests for acquiring such data are HTOL (high temperature operating life) or HTRB (high temperature reverse bias). Infineon FIT rate calculation according to JESD85A uses a standardized activation energy of 0.7 eV and a mean ambient temperature of 55°C as an average. Arrhenius equation is used for acceleration factor calculation.

Key features

- Product Reliability Data
- Provided on Product Pages
- Available for Download

Figure 1: Example CTRR with explanation of its content

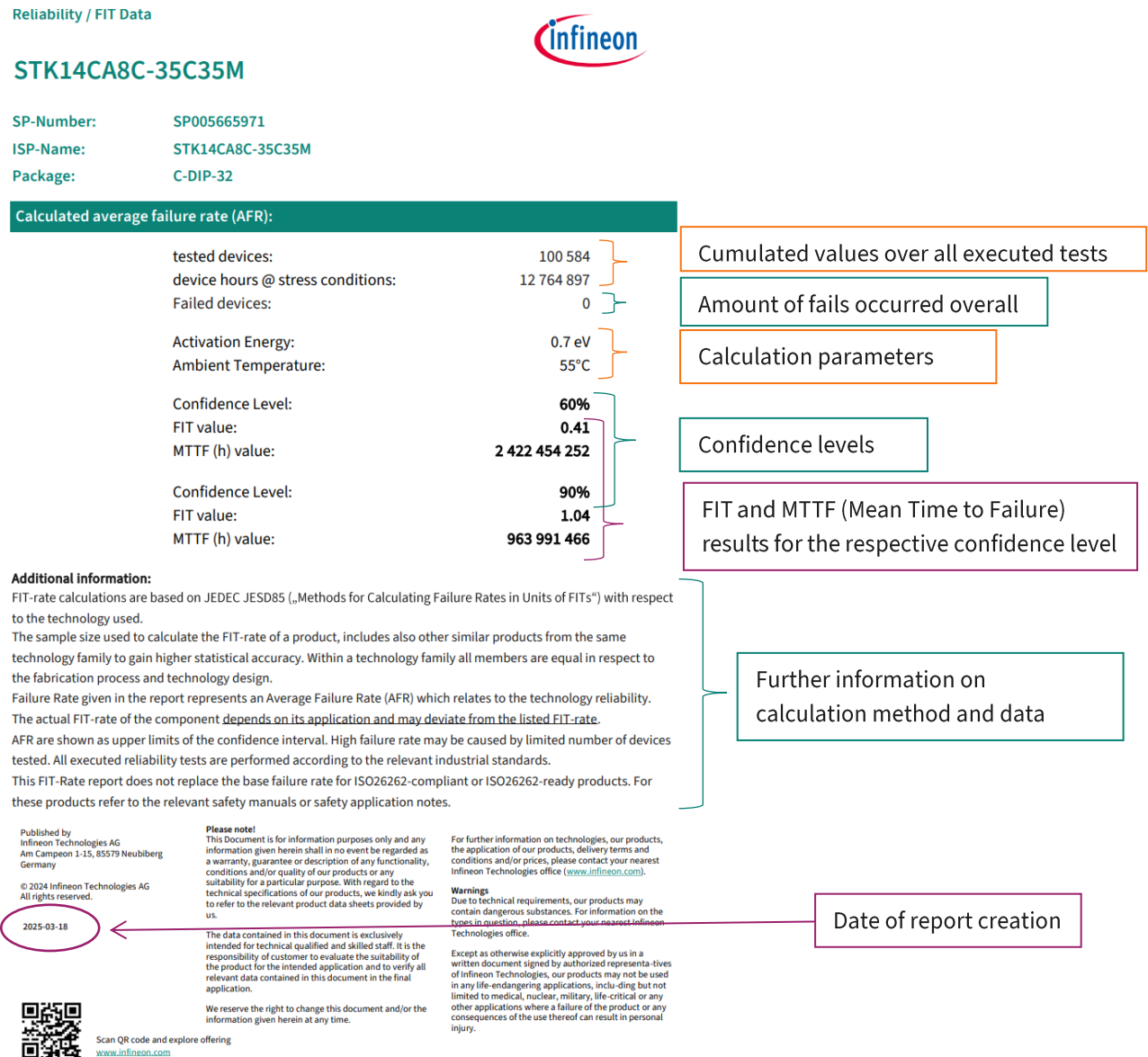


Figure 2: Example product homepage with FIT report

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 STK14CA8C-35C35M

Active and preferred
RoHS Compliant
Lead-free

STK14CA8C-35C35M

Data Sheet
Package

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Product details

Parameters
Ordering

Density	1 MBit	Organization (X x Y)	128Kb x 8
Interfaces	Parallel	Peak Reflow Temp	220 °C
Lead Ball Finish	Au	Currently planned availability until at least	2033
Operating Temperature	-55 °C to 125 °C	Qualification	Military
Operating Voltage (VCCQ) max	3.6 V	Speed	35 ns
Operating Voltage	3 V to 3.6 V		

Documents

Document Type
Language
Reset all

Document	Type	Details
RAM Solutions Intro Selling Guide	Fighting Guide	PDF 01_00 EN 1.71MB Feb 14, 2022
Non-volatile SRAM smart one pager	Product Selection Guide	PDF 01_00 EN 0.42MB Feb 14, 2022
STK14CA8C-3, 1-Mbit (128K x 8) nvSRAM	Data Sheet	PDF 03_00 EN 0.42MB Nov 13, 2019
FIT Report - STK14CA8C-35C35M	FIT Report	PDF 03_00 EN 0.02MB Mar 18, 2025
Customer Guideline for FIT Report	FIT Report	PDF 02_00 EN 0.28MB Aug 14, 2024

FIT reports are available for Download

- Go to [infineon.com](#)
- Login to myInfineon
- Visit the **product page**
- Go to section **Documents**
- open **FIT Report**
- **download** the FIT report

If you have any further questions, please contact us via the [technical assistance center](#). Your inquiry will be sent to the appropriate specialist.

Published by
Infineon Technologies AG
Am Campeon 1-15, 85579 Neubiberg
Germany

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Public

Document number:
Z8F80826419
Date: 07/2025

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