

SiT5541A-WUC0001

Description

This datasheet addendum defines the configuration of custom part number SiT5541A-WUC0001, which is a configuration-specific version of the SiTime base SiT5541 datasheet. Please refer to the SiT5541 datasheet and related collateral for further information about this device. You can search for and download the base SiT5541 datasheet from the SiTime website. Request datasheet <https://www.sitime.com/request-datasheet> for more information.

Configuration Information

Custom Part Number: SiT5541A-WUC0001

Base Part Number: SiT5541

Silicon Revision: A

Frequency (MHz): 10.000000

Frequency Stability (PPM): ± 0.01

Supply Voltage (V): 3.3

Temperature Range ($^{\circ}\text{C}$): -40 to 85

Package Size (mm): 7.0x5.0

Feature Pin: TCXO NC

Pull Range (PPM): ± 0

Device Address: -

Special Features: Low Sensitivity, 0.1 ppb/g

Output Drive Strength: Clipped Sinewave

Packaging Options (Append to the end of the custom part number when ordering. For example, order SiT5541A-WUC0001 for an 8mm Tape & Reel, 3ku Reel):

- "T": 16mm Tape & Reel, 3ku Reel
- "Y": 16mm Tape & Reel, 1ku Reel
- "X": 16mm Tape & Reel, 250u Reel
- "": (blank) Bulk for sampling only

Table 1. Electrical Characteristics

Parameters	Symbol	Min.	Typ.	Max.	Unit	Condition
Aging						
20-year Total Stability	F_20y	–	–	±150	ppb	At 85°C. Aging is measured when parts start operating. Complies with Stratum 3E per GR-1244-CORE. Actual performance is better
Initial Tolerance	F_init	–	–	±80	ppb	Initial frequency at 25°C at 48 hours after 2 reflows

Note: Refer to SiT5541 standard datasheet for all other specifications.

Revision History

Revision: 1

- Revision Date: 03/16/2023
- Initial Release

Revision: 2

- Revision Date: 10/09/2023
- Initial Tolerance and 20 Year Aging changed

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