

CS00084AC-1D2-33E100.00000

100 MHz Low Jitter LVPECL MEMS Oscillator



Description

CS00084AC-1D2-33E100.000000 is a specific configuration of the SiT9120 MEMS differential oscillator. The electrical characteristics of the parameters specific to this configuration are listed in this document. Refer to SiT9120 datasheet and other qualification documentation for all other specifications and qualification related information.

Features

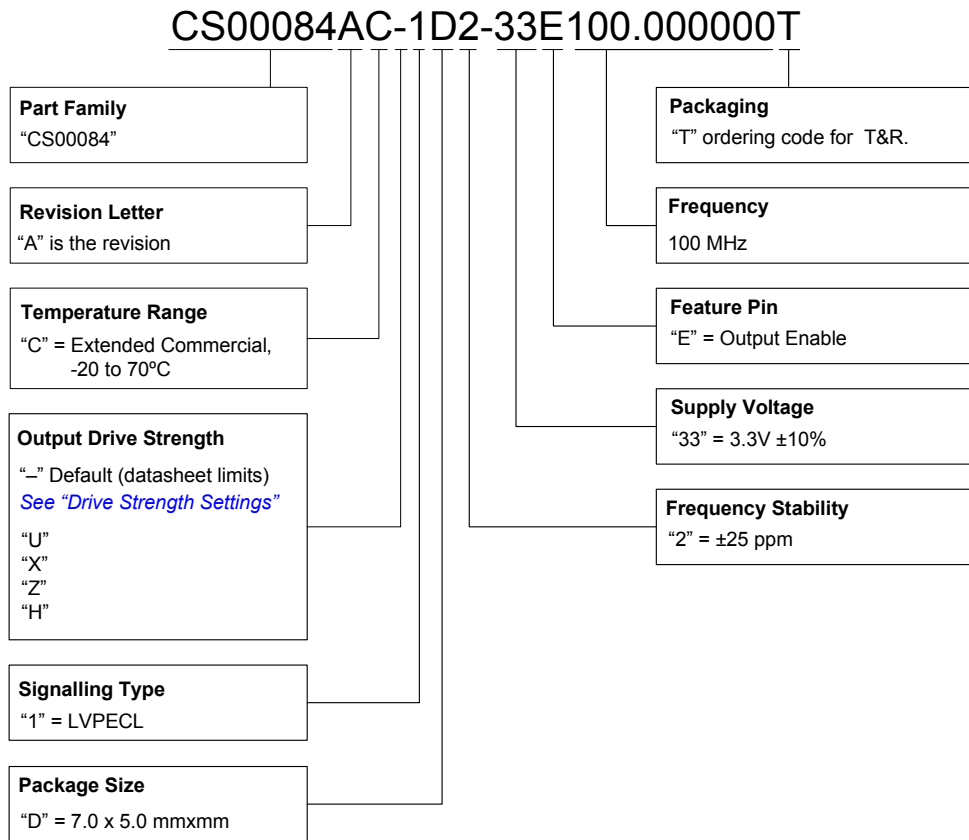
- Frequency: 100 MHz
- Output type: LVPECL
- Pin 1 operating mode: Output enable
- Industry standard 6-pin package: 7.0 x 5.0 mmxmm



Electrical Characteristics

Parameters	Symbol	Min.	Typ.	Max.	Unit	Condition
Frequency	f	–	100.000000	–	MHz	
Frequency Tolerance	F_tol	-25	–	+25	ppm	Inclusive of: Initial stability, operating temperature, rated power, supply voltage change, load change, shock and vibration
Operating Temperature Range	T_use	-20	–	70	°C	Extended Commercial
Supply Voltage	Vdd	2.97	3.3	3.63	V	
RMS Period Jitter	T_jitt	–	1.2	1.7	ps	
RMS Phase Jitter (random)	T_phj	–	0.6	0.85	ps	Integration bandwidth = 12 kHz to 20 MHz

Ordering Information



© SiTime Corporation 2015. The information contained herein is subject to change at any time without notice. SiTime assumes no responsibility or liability for any loss, damage or defect of a Product which is caused in whole or in part by (i) use of any circuitry other than circuitry embodied in a SiTime product, (ii) misuse or abuse including static discharge, neglect or accident, (iii) unauthorized modification or repairs which have been soldered or altered during assembly and are not capable of being tested by SiTime under its normal test conditions, or (iv) improper installation, storage, handling, warehousing or transportation, or (v) being subjected to unusual physical, thermal, or electrical stress.

Disclaimer: SiTime makes no warranty of any kind, express or implied, with regard to this material, and specifically disclaims any and all express or implied warranties, either in fact or by operation of law, statutory or otherwise, including the implied warranties of merchantability and fitness for use or a particular purpose, and any implied warranty arising from course of dealing or usage of trade, as well as any common-law duties relating to accuracy or lack of negligence, with respect to this material, any SiTime product and any product documentation. Products sold by SiTime are not suitable or intended to be used in a life support application or component, to operate nuclear facilities, or in other mission critical applications where human life may be involved or at stake. All sales are made conditioned upon compliance with the critical uses policy set forth below.

CRITICAL USE EXCLUSION POLICY
 BUYER AGREES NOT TO USE SITIME'S PRODUCTS FOR ANY APPLICATION OR IN ANY COMPONENTS USED IN LIFE SUPPORT DEVICES OR TO OPERATE NUCLEAR FACILITIES OR FOR USE IN OTHER MISSION-CRITICAL APPLICATIONS OR COMPONENTS WHERE HUMAN LIFE OR PROPERTY MAY BE AT STAKE.

SiTime owns all rights, title and interest to the intellectual property related to SiTime's products, including any software, firmware, copyright, patent, or trademark. The sale of SiTime products does not convey or imply any license under patent or other rights. SiTime retains the copyright and trademark rights in all documents, catalogs and plans supplied pursuant to or ancillary to the sale of products or services by SiTime. Unless otherwise agreed to in writing by SiTime, any reproduction, modification, translation, compilation, or representation of this material shall be strictly prohibited.