

Crystal Oscillator

NT7050BC

High Precision Temperature Compensated
Crystal Oscillator (TCXO) for 5G and STRATUM3

Main Application

- 5G
- Stratum3
- Network
- Basestation

Features

- Freq. / Temp. Characteristics : Max. $\pm 0.1 \times 10^{-6} / -40$ to $+105^\circ\text{C}$
- Excellent phase noise characteristics : Typ. $-97\text{dBc/Hz}@10\text{Hz}$
- Output specification can be selected CMOS or Clipped Sine.
- With Enable / Disable function.
- 4 terminal type available.



Pb Free

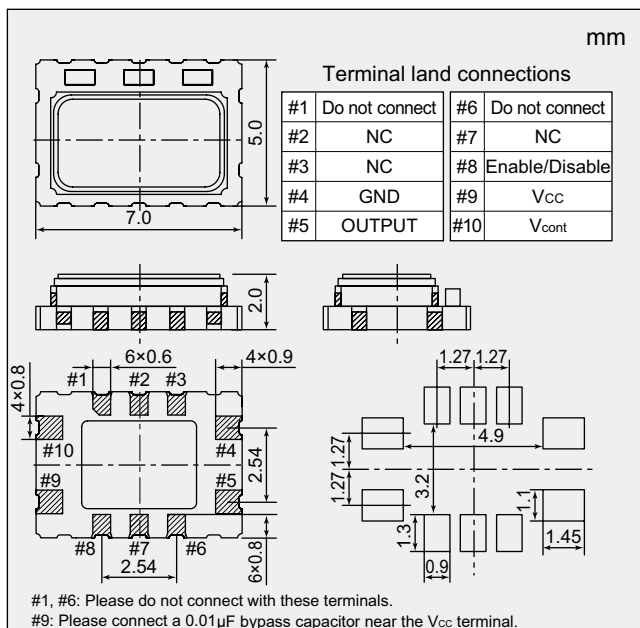
RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

Specifications

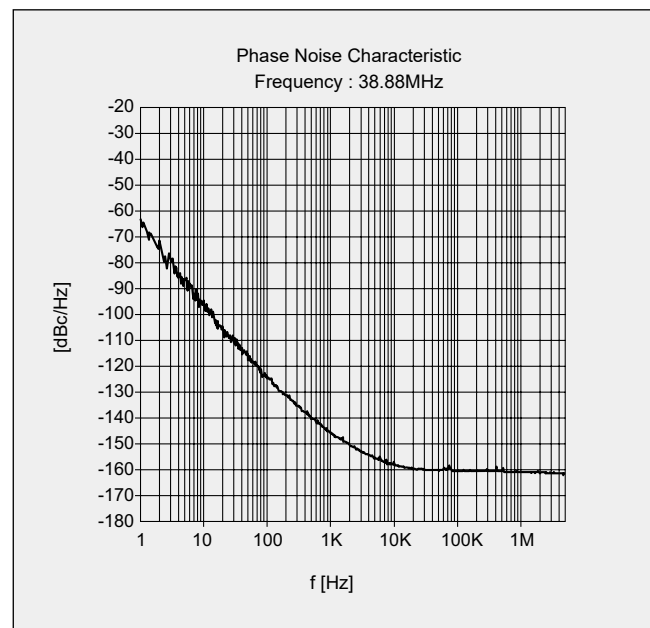
Item	Model	NT7050BC	
Nominal Frequency Range (MHz)		10 to 40	
Supply Voltage [V _{cc}] (V)		$+3.3 \pm 5\%$	
Current Consumption (mA)		Max. 10	
Output Specification		CMOS	Clipped sine
Symmetry Min. to Max. (%)		40 to 60	
Output Load Condition		15pF	10kΩ // 10 pF
Operating Temperature Range (°C)		-40 to +105	
Storage Temperature Range (°C)		-55 to +125	
Frequency/Temperature Characteristics		Max. $\pm 0.1 \times 10^{-6}$	
Overall Frequency Tolerance *1		Max. $\pm 4.6 \times 10^{-6}$	
Enable / Disable Function		Enable : Min. 70%V _{cc} or OPEN	Disable : Max. 30%V _{cc}
Specification Number		NSC5176B	NSC5176A

*1 : Overall Frequency Tolerance includes Frequency/Temperature Characteristics, Initial Frequency tolerance, Frequency/Voltage Coefficient, Frequency/Load Coefficient and Long-term Frequency Stability (15years).

Dimensions



Phase Noise Characteristics



Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.