

# Crystal oscillator for 5G

## NT7050BC

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

### Main Application

- 5G compatible device
- 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.  $-97\text{dBc}/\text{Hz}@10\text{Hz}$
- Output specification can be selected CMOS or Clipped Sine.
- With Enable / Disable function.
- 4 terminal type available.



Pb Free

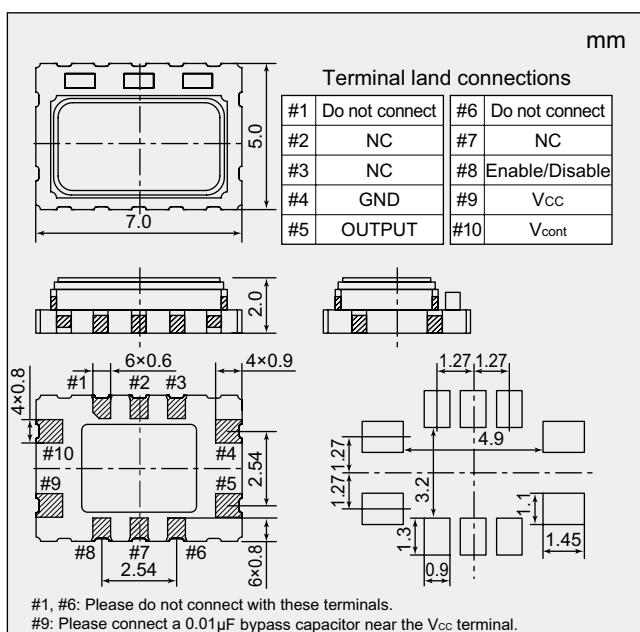
RoHS Compliant  
Directive 2011/65/EU  
Directive (EU) 2015/863

### Specifications

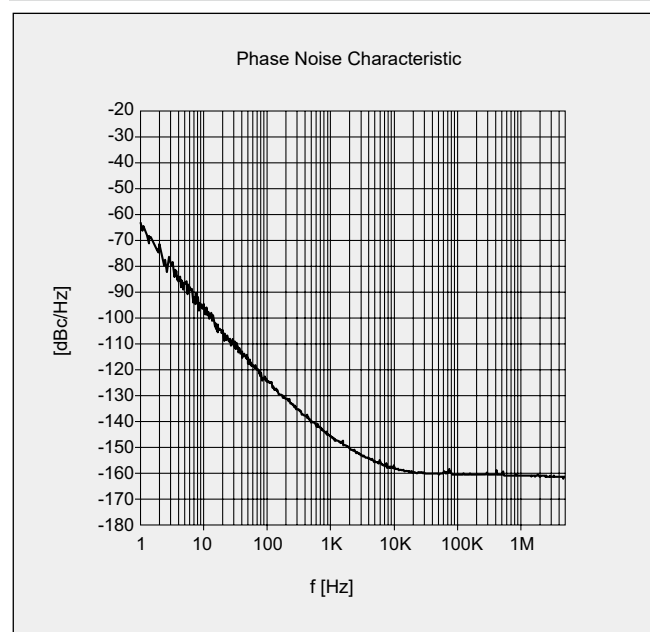
Item	Model	NT7050BC	
Nominal Frequency Range (MHz)		10, 38.88	
Supply Voltage [V <sub>CC</sub> ] (V)		$+3.3 \pm 5\%$	
Current Consumption (mA)		Max. 10	
Output Specification		CMOS	Clipped sine
Symmetry Min. to Max. (%)		40 to 60	
Output Load Condition		15pF	10k $\Omega$ // 10 pF
Operating Temperature Range ( $^\circ\text{C}$ )		-40 to +105	
Storage Temperature Range ( $^\circ\text{C}$ )		-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 <sub>CC</sub> or OPEN	Disable : Max. 30%V <sub>CC</sub>

\*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



### Contact Us

Standard catalog specifications are listed for the products listed. Custom is available upon request.  
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