

# Crystal Oscillator

## NT7050BB / NT7050BC

High Precision Temperature Compensated Crystal Oscillator (TCXO)  
for STRATUM3

### Main Application

- Stratum3
- SONET/SDH
- Basestation

### Features

- Maximum Operating Temp. +105°C .  
(Freq. / Temp. Characteristics Max.  $\pm 0.5 \times 10^{-6}$ )
- Low current consumption : Max. 8mA
- Output specification can be selected CMOS or Clipped Sine.
- Small size SMD package : (7.0×5.0×2.0mm)
- With Enable / Disable function. (Model Name : NT7050BC)



Pb Free

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

### Specifications

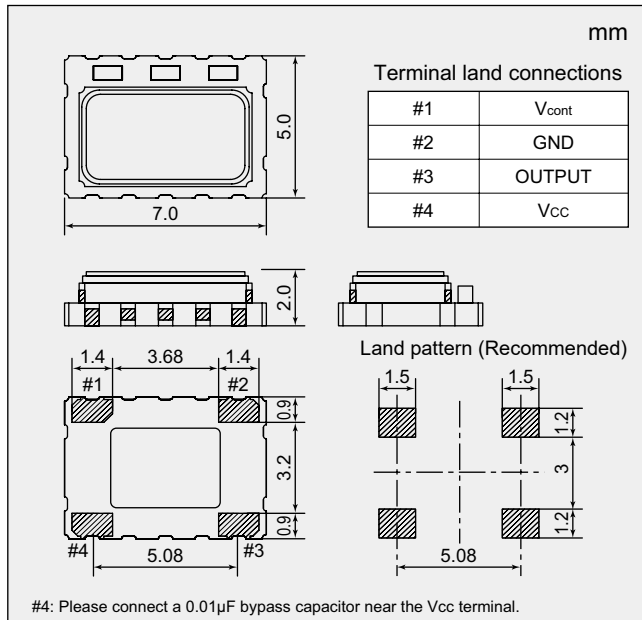
Item	Model	NT7050BB / NT7050BC	
Nominal Frequency (MHz)		10 to 40	10 to 25
Supply Voltage [V <sub>cc</sub> ] (V)		+3.3 ± 5%	+3.3 ± 5%
Current Consumption (mA)		Max. 8	
Output Specification		CMOS or Clipped sine	
Symmetry Min. to Max. (%)		40 to 60 (CMOS)	
Output Load Condition		15pF or 10kΩ // 10 pF	
Operating Temperature Range (°C)		-40 to +85	-40 to +105
Storage Temperature Range (°C)		-40 to +105	
Frequency/Temperature Characteristics		Max. $\pm 0.28 \times 10^{-6}$	Max. $\pm 0.5 \times 10^{-6}$
Overall Frequency Tolerance *1		Max. $\pm 4.6 \times 10^{-6}$	
Frequency Control Range / Control Voltage [V <sub>cont</sub> ]		Max. $\pm 5 \times 10^{-6}$ / +1.65V ± 1.65V	
Enable / Disable Function *2		Enable : Min. 80%V <sub>cc</sub> or OPEN	Disable : Max. 20%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).

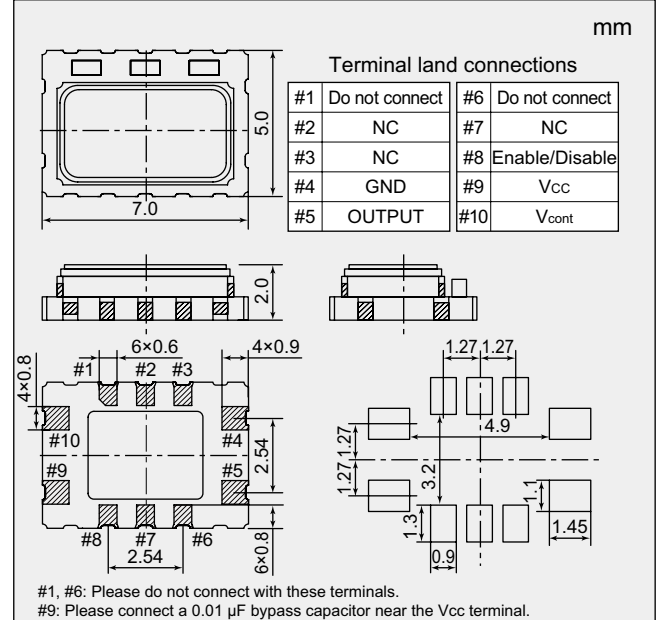
\*2 : NT7050BC

### Dimensions

Model Name : NT7050BB



Model Name : NT7050BC



### Specification Number

Please specify the model name, frequency, and specification number when you order products.

For further questions regarding specifications, please feel free to contact us.

Model	Operating Temperature Range		
	-40 to +85°C	-40 to +105°C	
NT7050BB	CMOS	NSA3633Q	NSA3633S
	Clipped Sine	NSA3633P	NSA3633R

Model	Operating Temperature Range		
	-40 to +85°C	-40 to +105°C	
NT7050BC	CMOS	NSA3634Q	NSA3634S
	Clipped Sine	NSA3634P	NSA3634R