

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. $\pm 0.5 \times 10^{-6}$)
- Freq. / Temp. Characteristics Max. $\pm 0.07 \times 10^{-6}$. (Operating Temp. Range-10 to +70°C)
- Low current consumption : Max. 6mA
- Output voltage 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

Specifications

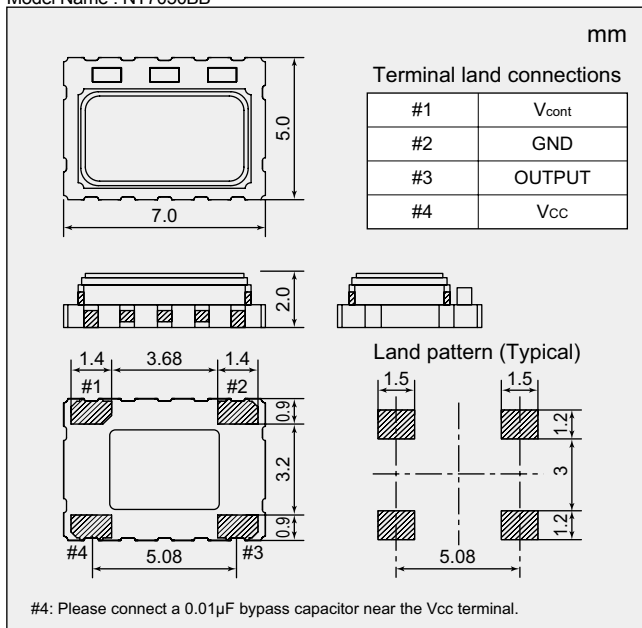
Item	Model	NT7050BB / NT7050BC		
Nominal Frequency (MHz)		10 to 26	10 to 40	10 to 25
Supply Voltage [V _{cc}] (V)		+3.3 ± 2%	+3.3 ± 5%	+3.3 ± 5%
Current Consumption (mA)		Max. 6		
Output Voltage		CMOS or Clipped sine		
Symmetry Min. to Max. (%)		40 to 60		
Output Load Condition		15pF or 10kΩ // 10 pF		
Operating Temperature Range (°C)		-10 to +70	-40 to +85	-40 to +105
Storage Temperature Range (°C)		-55 to +125		
Frequency/Temperature Characteristics		Max. $\pm 0.07 \times 10^{-6}$	Max. $\pm 0.28 \times 10^{-6}$	Max. $\pm 0.5 \times 10^{-6}$
Overall Frequency Tolerance *1		Max. $\pm 4.6 \times 10^{-6}$		
Absolute Pull Range(APR) / Control Voltage [V _{cont}]		Max. $\pm 5 \times 10^{-6}$ / +1.65V ± 1.65V		
Enable / Disable Function *2		Enable : Min. 70%V _{cc} or OPEN		Disable : Max. 30%V _{cc}

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

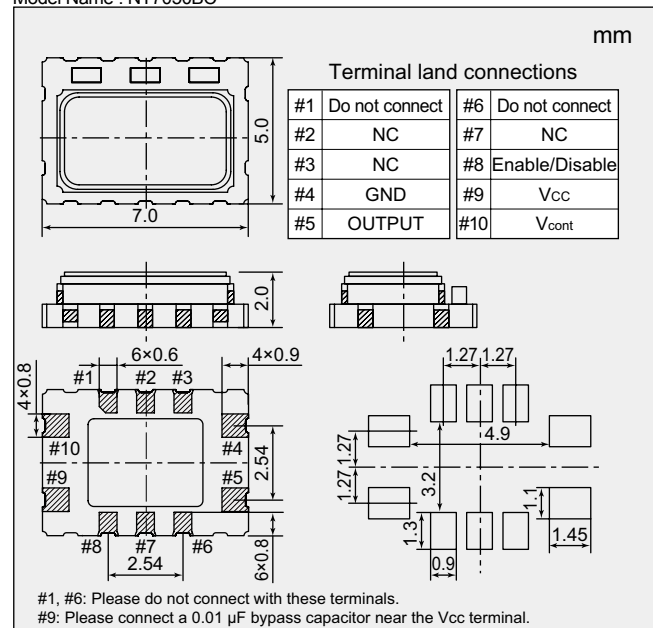
*2 :

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	-10 to +70°C	-40 to +85°C	-40 to +105°C
	Output Voltage	NSA3633B	NSA3633D	NSA3633F
NT7050BB	CMOS	NSA3633A	NSA3633C	NSA3633E
	Clipped Sine			

Model	Operating Temperature Range	-10 to +70°C	-40 to +85°C	-40 to +105°C
	Output Voltage	NSA3634B	NSA3634D	NSA3634F
NT7050BB	CMOS	NSA3634A	NSA3634C	NSA3634E
	Clipped Sine			