

## NT7050BB

High Precision Temperature Compensated Crystal Oscillator (TCXO)  
for STRATUM3

### Main Application

- SONET/SDH
- Femtocell/Small cell Basestation
- Stratum3

### 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)



Pb Free

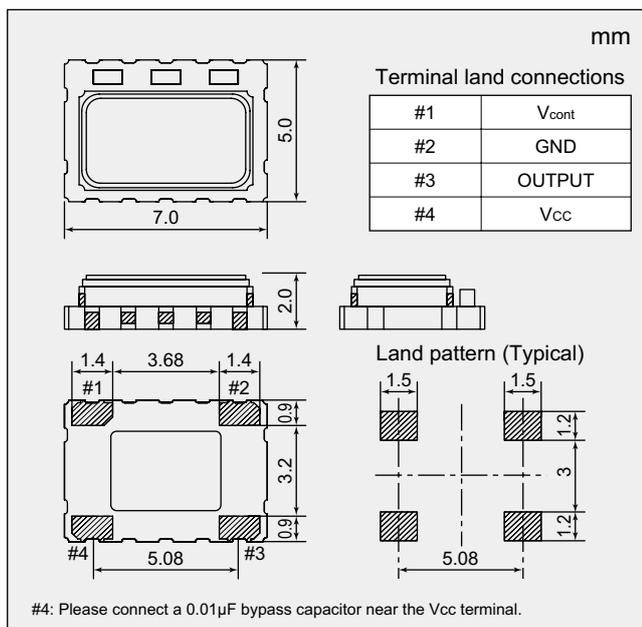
RoHS Compliant  
Directive 2011/65/EU

### Specifications

Item	Model	NT7050BB		
Nominal Frequency (MHz)		10 to 26	10 to 40	10 to 25
Supply Voltage [V <sub>cc</sub> ] (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 <sub>cont</sub> ]		Max. $\pm 3 \times 10^{-6}$ / +1.65V ± 1.65V		

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

### Dimensions



### 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.

Output Voltage: CMOS

Operating Temperature Range (°C)	-10 to +70°C	-40 to +85°C	-40 to +105°C
Specification Number	NSA3633B	NSA3633D	NSA3633F

Output Voltage : Clipped Sine

Operating Temperature Range (°C)	-10 to +70°C	-40 to +85°C	-40 to +105°C
Specification Number	NSA3633A	NSA3633C	NSA3633E