

# Crystal Oscillator

## NT5032BA / NT5032BB

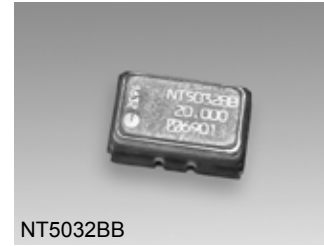
High Precision Temperature Compensated Crystal Oscillator (TCXO)  
for STRATUM3

### 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 specification can be selected CMOS or Clipped Sine.
- Small size SMD package : (5.0×3.2×1.8mm)
- With Enable / Disable function. (NT5032BA)



Pb Free

RoHS Compliant  
Directive 2011/65/EU

### Specifications

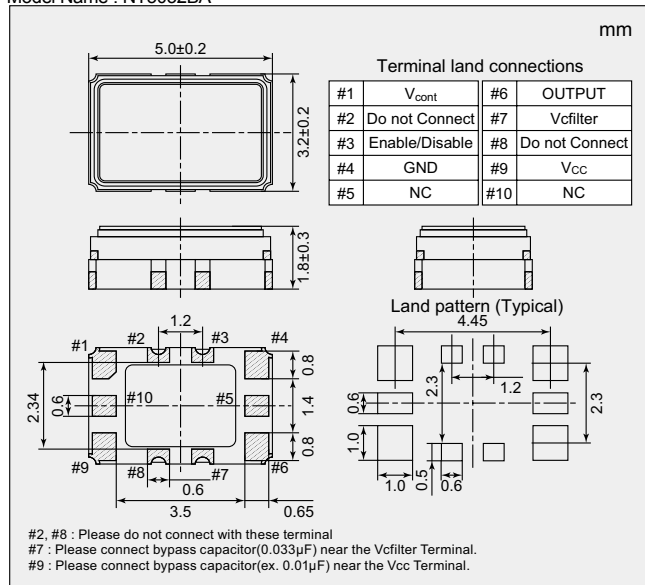
Item	Model	NT5032BA / NT5032BB		
Nominal Frequency (MHz)		10 to 26	10 to 40	10 to 25
Supply Voltage [V <sub>cc</sub> ] (V)		+3.3 ± 2%	+3.3 ± 5%	+3.3 ± 5%
Current Consumption (mA)		Max. 6		
Output Specification		CMOS or Clipped sine		
Symmetry Min. to Max. (%)		40 to 60		
Output Load Condition		15pF or 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> ]		Min. $\pm 5 \times 10^{-6}$ / +1.65V ± 1.65V		
Enable / Disable Function *2		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).

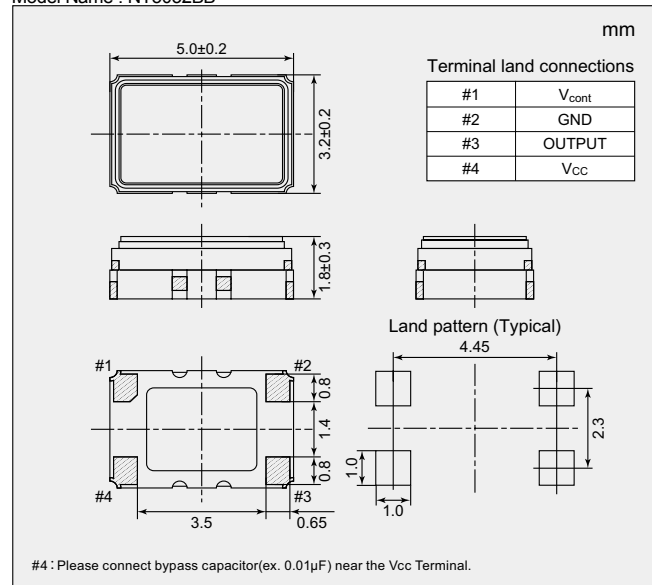
\*2 : NT5032BA

### Dimensions

Model Name : NT5032BA



Model Name : NT5032BB



### 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	
NT5032BA	CMOS	NSC5118B	NSC5118D	NSC5118F
	Clipped Sine	NSC5118A	NSC5118C	NSC5118E

Model	Operating Temperature Range			
	-10 to +70°C	-40 to +85°C	-40 to +105°C	
NT5032BB	CMOS	NSC5119B	NSC5119D	NSC5119F
	Clipped Sine	NSC5119A	NSC5119C	NSC5119E