



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Crystal Oscillator

## NT5032BA / NT5032BB

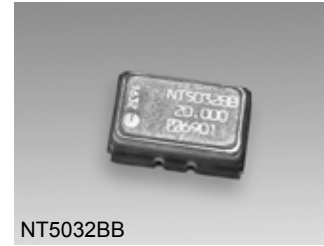
High Precision Temperature Compensated Crystal Oscillator (TCXO)  
for STRATUM3

### 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

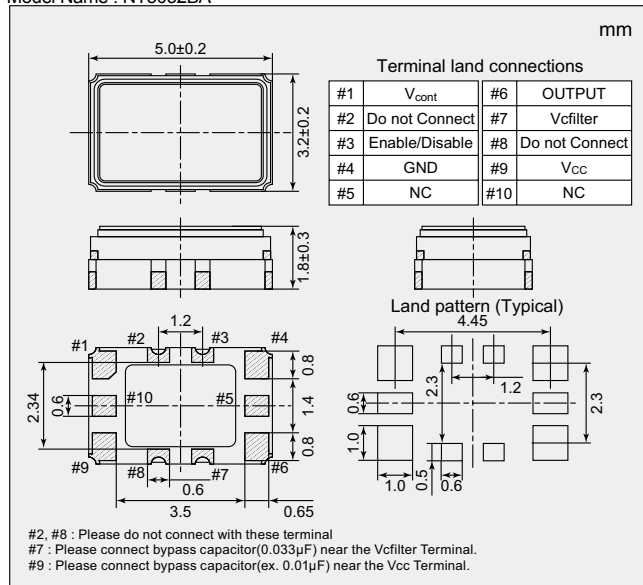
Item	Model	NT5032BA / NT5032BB		
Nominal Frequency (MHz)		10 to 26	10 to 40	10 to 25
Supply Voltage [V <sub>cc</sub> ] (V)		+3.3 ± 2%	+3.3 ± 5%	+3.3 ± 5%
Current Consumption (mA)		Max. 6		
Output Specification		CMOS or Clipped sine		
Symmetry Min. to Max. (%)		40 to 60		
Output Load Condition		15pF or 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).

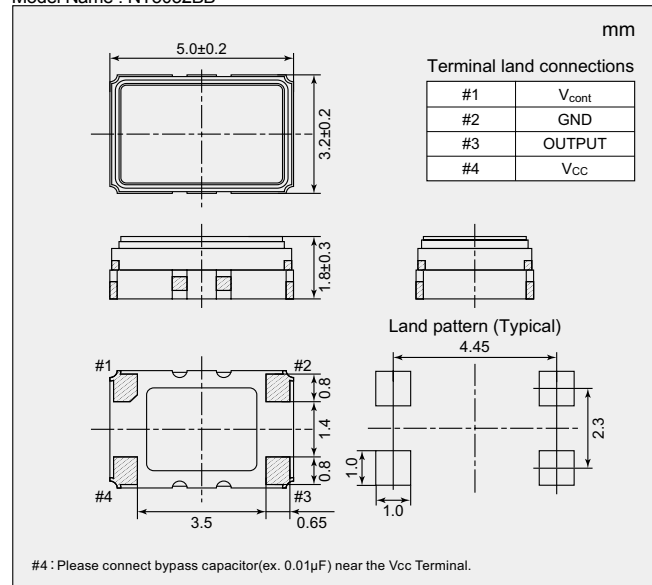
\*2 : NT5032BA

### 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	Output Specification	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	Output Specification	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