

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
Directive (EU) 2015/863

Specifications

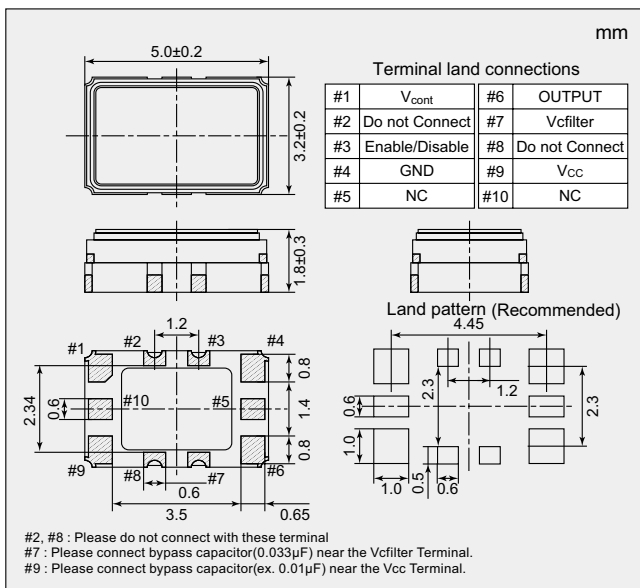
Item	Model	NT5032BA / NT5032BB		
Nominal Frequency (MHz)		10 to 26	10 to 40	10 to 25
Supply Voltage [V _{cc}] (V)		+3.3 ± 2%	+3.3 ± 5%	+3.3 ± 5%
Current Consumption (mA)		Max. 6		
Output Specification		CMOS or Clipped sine		
Symmetry Min. to Max. (%)		40 to 60 (CMOS)		
Output Load Condition		15pF or 10kΩ // 10 pF		
Operating Temperature Range (°C)		-10 to +70	-40 to +85	-40 to +105
Storage Temperature Range (°C)		-40 to +105		
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. $\pm 4.6 \times 10^{-6}$		
Frequency Control Range / Control Voltage [V _{cont}]		Min. $\pm 5 \times 10^{-6}$ / +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).

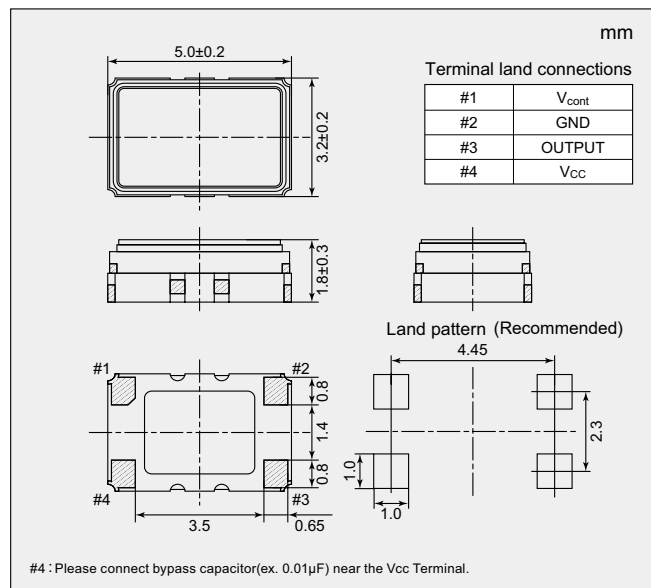
*2 : NT5032BA

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
	Output Specification				
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
	Output Specification				
NT5032BB	CMOS		NSC5119B	NSC5119D	NSC5119F
	Clipped Sine		NSC5119A	NSC5119C	NSC5119E