Crystal Oscillator NEW

NT7050BC

Temperature Compensated Crystal Oscillator (TCXO) With Enable / Disable (Stand-by) function

NDK — Crystal Bridge to the Future

■ Main Application

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

■ Features

- With Enable / Disable(Stand-by) function.
- Maximum Operating Temp. +105°C . (Freq. / Temp. Characteristics Max. ±0.5×10⁻⁶)
- Freq. / Temp. Characteristics Max. ±0.07×10⁻⁶ .(Operating Temp. Range-10 to +70°C)
- Low current consumption : Max. 6mA
- Output voltage can be selected CMOS or Clipped Sine.
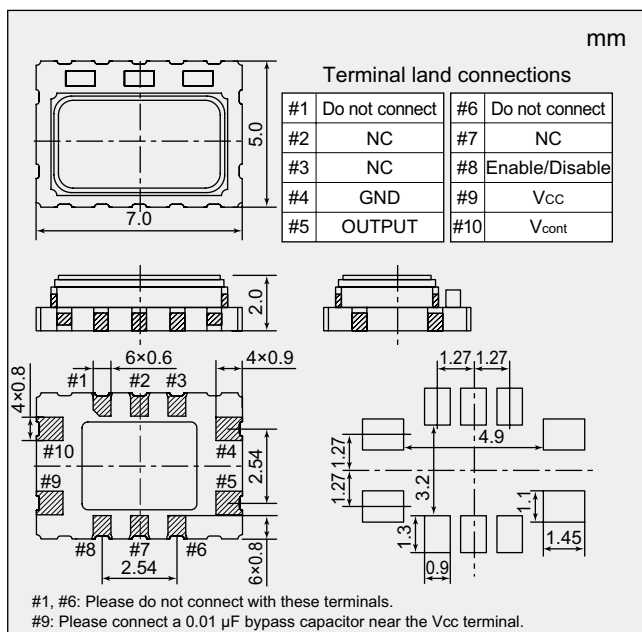- Small size SMD package : (7.0×5.0×2.0mm)

Pb Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

Item \ Model	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. ±0.07×10⁻⁶	Max. ±0.28×10⁻⁶	Max. ±0.5×10⁻⁶
Overall Frequency Tolerance [1]	Max. ±4.6×10⁻⁶		
Absolute Pull Range(APR) / Control Voltage [V_{cont}]	Max. ±5×10⁻⁶/+1.65V±1.65V		
Enable / Disable Function	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).

■ Dimensions

mm

Terminal land connections

#		#	
#1	Do not connect	#6	Do not connect
#2	NC	#7	NC
#3	NC	#8	Enable/Disable
#4	GND	#9	V_{CC}
#5	OUTPUT	#10	V_{cont}

#1, #6: Please do not connect with these terminals.
#9: Please connect a 0.01 µF bypass capacitor near the Vcc terminal.

■ 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	NSA3634B	NSA3634D	NSA3634F

Output Voltage : Clipped Sine

Operating Temperature Range (°C)	-10 to +70°C	-40 to +85°C	-40 to +105°C
Specification Number	NSA3634A	NSA3634C	NSA3634E