Crystal Oscillator NEW

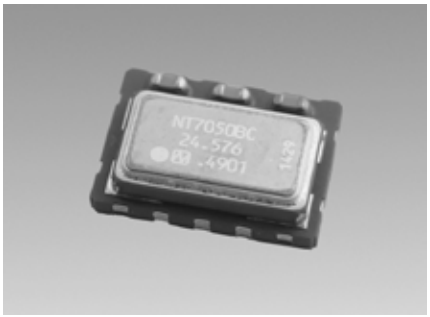
NDK Crystal Bridge to the Future

NT7050BC

High Precision Temperature Compensated Crystal Oscillator (TCXO)for 5G and STRATUM3

■ Main Application

● 5G ● Stratum3 ● Network ● Basestation



■ Features

- Freq. / Temp. Characteristics : Max. ±0.1×10^{-6}/–40 to +105°C)
- Excellent phase noise characteristics : Typ. –97dBc/Hz@10Hz
- Output specification can be selected CMOS or Clipped Sine.
- With Enable / Disable function.
- 4 terminal type avalable.

Pb Free

RoHS Compliant Directive 2011/65/EU

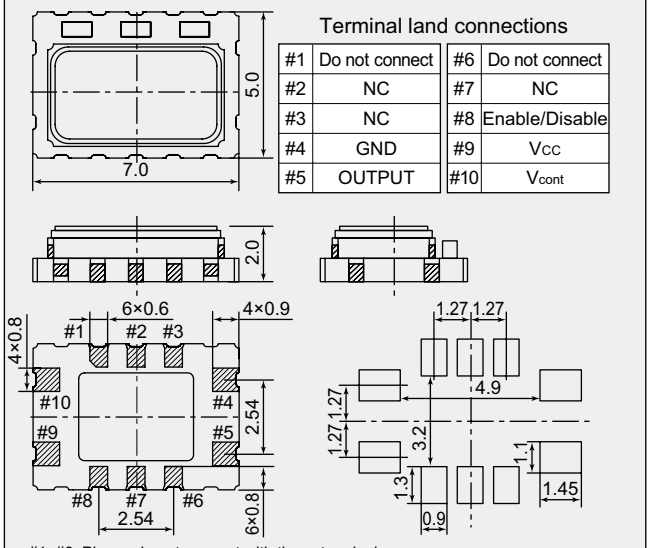
■ Specifications

Item \ Model	NT7050BC	
Nominal Frequency Range (MHz)	10 to 40	
Supply Voltage [V_{CC}] (V)	+3.3 ± 5%	
Current Consumption (mA)	Max. 10	
Output Specification	CMOS	Clipped sine
Symmetry Min. to Max. (%)	40 to 60	
Output Load Condition	15pF	10kΩ // 10 pF
Operating Temperature Range (°C)	–40 to +105	
Storage Temperature Range (°C)	–55 to +125	
Frequency/Temperature Characteristics	Max. ±0.1×10^{-6}	
Overall Frequency Tolerance *1	Max. ±4.6×10^{-6}	
Enable / Disable Function	Enable : Min. 70%V_{CC} or OPEN	Disable : Max. 30%V_{CC}
Specification Number	NSC5176B	NSC5176A

*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

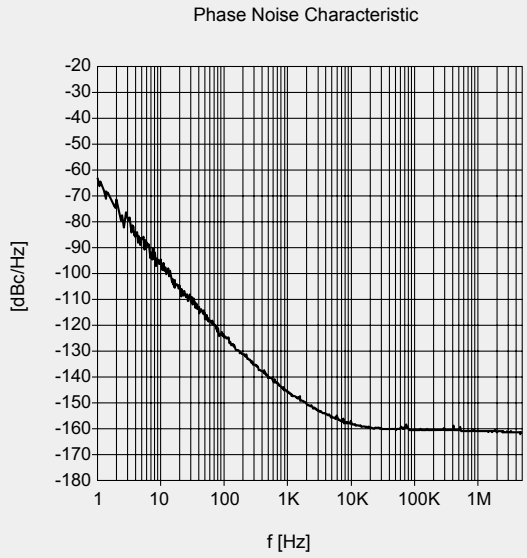


Terminal land connections

#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 0.01μF bypass capacitor near the V_{CC} terminal.

■ Phase Noise Characteristics



Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.