

Crystal Oscillator

NT7050BB / NT7050BC

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 : (7.0×5.0×2.0mm)
- With Enable / Disable function. (Model Name : NT7050BC)



Pb Free

RoHS Compliant
Directive 2011/65/EU

Specifications

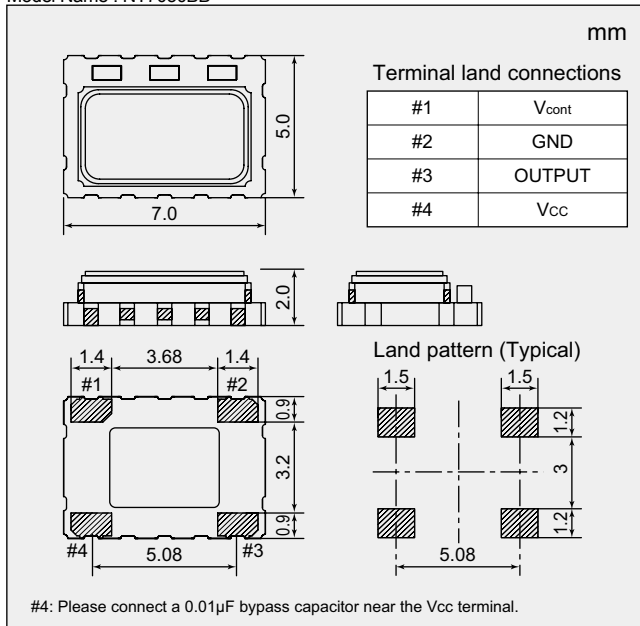
| Item | Model | NT7050BB / NT7050BC | | |
|----------------------------------------------------------------|-------|----------------------------------------------|--------------------------------|-----------------------------------|
| Nominal Frequency (MHz) | | 10 to 26 | 10 to 40 | 10 to 25 |
| Supply Voltage [V _{CC}] (V) | | +3.3 ± 2% | +3.3 ± 5% | +3.3 ± 5% |
| Current Consumption (mA) | | Max. 6 | | |
| Output 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) | | -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. $\pm 4.6 \times 10^{-6}$ | | |
| Frequency Control Range / Control Voltage [V _{cont}] | | Max. $\pm 5 \times 10^{-6}$ / +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).

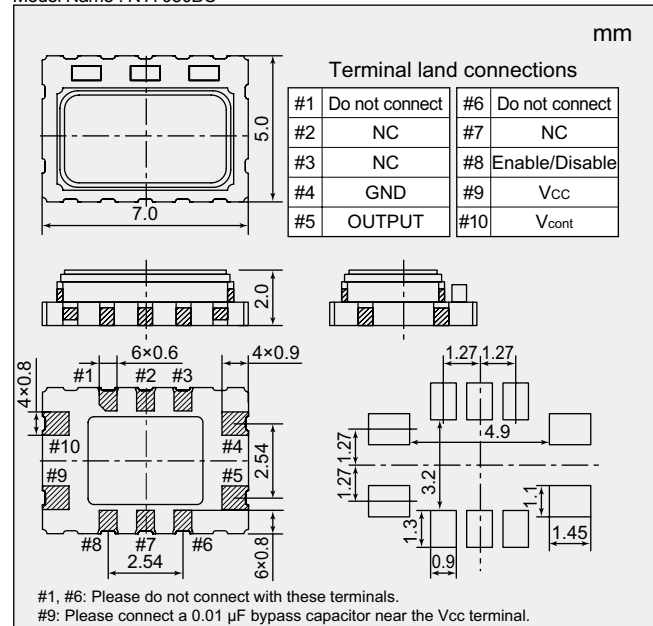
*2 : NT7050BC

Dimensions

Model Name : NT7050BB



Model Name : NT7050BC



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 | NSA3633B | NSA3633D | NSA3633F |
| NT7050BB | CMOS | NSA3633B | NSA3633D | NSA3633F |
| | Clipped Sine | NSA3633A | NSA3633C | NSA3633E |

| Model | Operating Temperature Range | -10 to +70°C | -40 to +85°C | -40 to +105°C |
|----------|-----------------------------|--------------|--------------|---------------|
| | Output Specification | NSA3634B | NSA3634D | NSA3634F |
| NT7050BC | CMOS | NSA3634B | NSA3634D | NSA3634F |
| | Clipped Sine | NSA3634A | NSA3634C | NSA3634E |