

NP5032SB

Simple Packaged Crystal Oscillator (SPXO)

Main Application

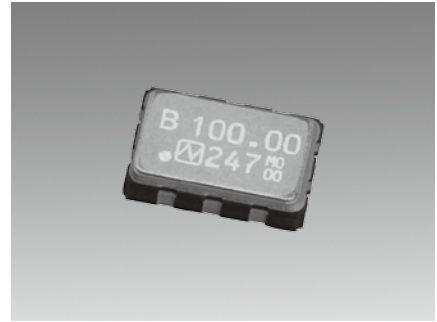
For SONET-, SDH-, and GbEthernet-related equipment

Features

- Differential Output SPXO
- Compact dimension : 5.0 × 3.2 × 1.2 mm.
- Supply voltage : +2.5V or +3.3V
- Output Specification : LVDS
- Excellent low phase jitter (Typ. 0.13ps @148.5MHz)

Pb Free

RoHS Compliant
Directive 2011/65/EU

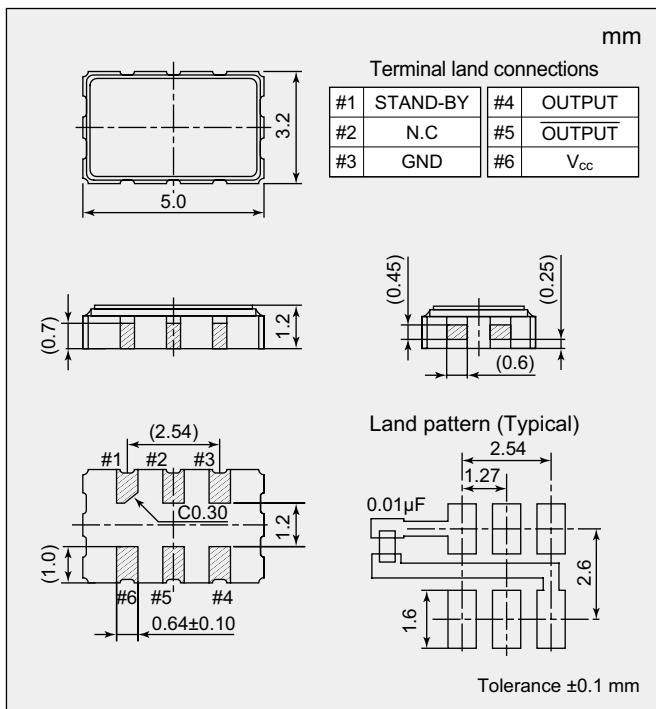


Specifications

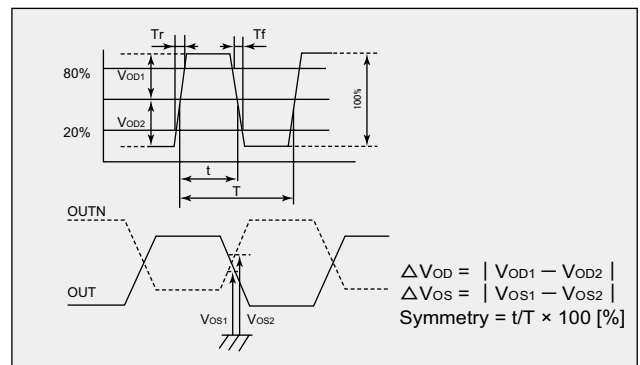
Item	Model	NP5032SB					
Output Specification		LVDS					
Nominal Frequency Range (MHz)		100 to 170					
Overall Frequency Tolerance *1		Max. ±25 × 10 ⁻⁶		Max. ±50 × 10 ⁻⁶		Max. ±100 × 10 ⁻⁶	
Operating Temperature Range (°C)		0 to +70		0 to +85		-40 to +85	
Storage Temperature Range (°C)		-55 to +125					
Supply Voltage [V _{CC}] (V)		+2.5 ± 5 %	+3.3 ± 10 %	+2.5 ± 5 %	+3.3 ± 10 %	+2.5 ± 5 %	+3.3 ± 10 %
Current Consumption	Enable (mA)	Max. 40 (STAND-BY=V _{CC} or OPEN, R _L =100 Ω)					
	Stand-by (µA)	Max. 30 (STAND-BY=GND)					
Output Voltage		V _{OD1} , V _{OD2} : 0.247 to 0.454V (Differential output voltage)					
		ΔV _{OD} : Max. 50mV (Output change)					
		V _{OS1} , V _{OS2} : 1.125 to 1.375V (Offset voltage, DC characteristics)					
		ΔV _{OS} : Max. 50mV (Offset voltage, DC characteristics)					
Rise Time / Fall Time (ns)		Max. 1 (20 to 80% Waveform)					
Symmetry (%)		45 to 55 (at 50% Waveform)					
Output Load (Ω)		100 (Connected between out and complementary out)					
Phase Jitter (ps)		Max. 1 (Offset frequency : 12kHz to 20MHz)					
Specification Number		NSC5107A	NSC5108A	NSC5107B	NSC5108B	NSC5107C	NSC5108C

*1 : The frequency stability includes initial frequency tolerance, temperature variation, and supply variation.

Dimensions



Output waveform



Standby Function Table (Three-state)

#1 Input	#4 and #5 output
Level H (V _{IH} ≥ 0.7 V _{CC}) or OPEN	Oscillation output ON
Level L (V _{IL} ≤ 0.3 V _{CC})	High impedance

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