

## NP3225SC

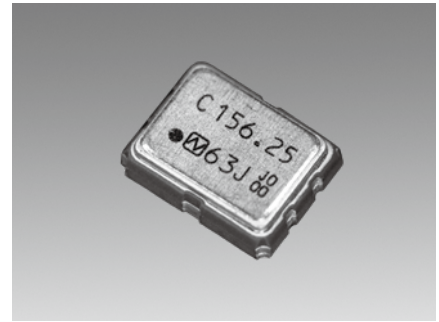
Simple Packaged Crystal Oscillator (SPXO)

### Main Application

For Computer, GPS for Automotive navigation system (PCIe) and Amusement equipment (PCIe)

### Features

- Differential Output SPXO
- Compact dimension 3.2 × 2.5 × 0.9 mm
- Supply Voltage : +2.5V or +3.3V
- Output Specification : HCSL
- Excellent low phase jitter (Typ. 85fs @156.25MHz)
- Conforms to AEC-Q200
- Conforms to PCI Express 3.0



Pb Free

RoHS Compliant  
Directive 2011/65/EU  
Directive (EU) 2015/863

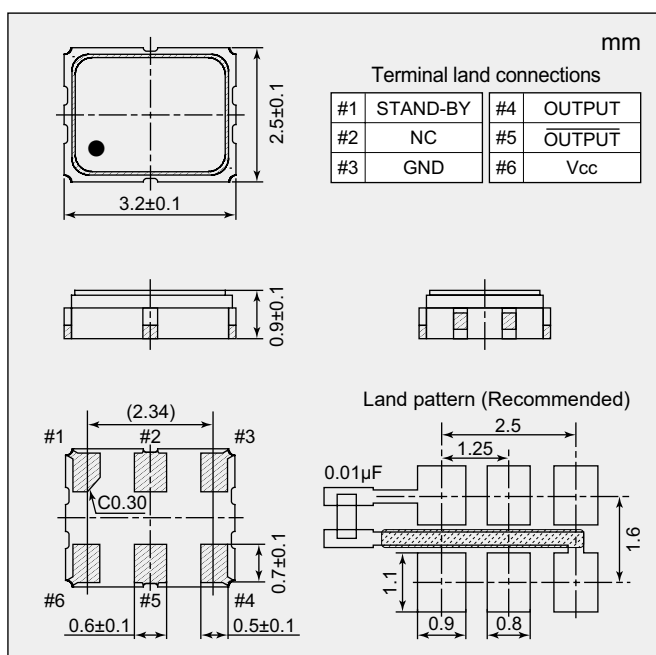
Absolute maximum rating  
Supply Voltage (V<sub>CC</sub>) -0.3 to +4.0 V  
Storage Temperature Range -55 to +125 °C

### Specifications

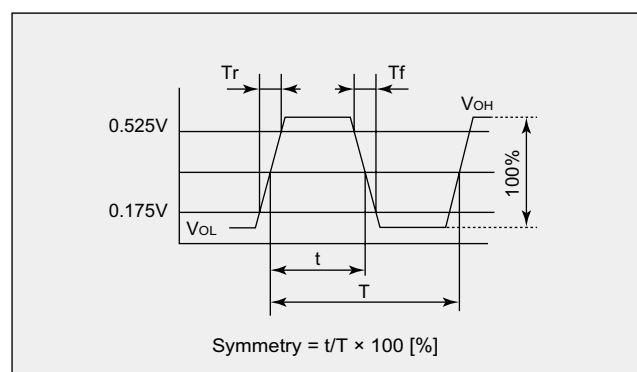
Item	Model	NP3225SC			
Output Specification		HCSL			
Nominal Frequency Range (MHz)		100 to 175			
Overall Frequency Tolerance *1		Max. ±50 × 10 <sup>-6</sup>			
Operating Temperature Range (°C)		-40 to +85		-40 to +105	
Supply Voltage [V <sub>CC</sub> ] (V)		+2.5 ± 5 %	+3.3 ± 10 %	+2.5 ± 5 %	+3.3 ± 10 %
Current Consumption	Enable (mA)	Max. 50 (STAND-BY=V <sub>CC</sub> or OPEN, R <sub>L</sub> =50Ω)			
	Stand-by (µA)	Max. 15 (STAND-BY=GND)		Max. 30 (STAND-BY=GND)	
Output Voltage (mV)		V <sub>OL</sub> : -150 to +150 (DC characteristics)			
		V <sub>OH</sub> : +580 to +850 (DC characteristics)			
Rise Time / Fall Time (ns)		Max. 0.5 (0.175 to 0.525V)			
Symmetry (%)		45 to 55 (at 50% Waveform)			
Output Load [R <sub>L</sub> ] (Ω)		50			
Start-up Time (ms)		Max. 10			
Phase Jitter (ps)		Max. 1 (Offset Frequency : 12kHz to 20MHz)			
Specification Number		NSC5082A	NSC5345B	NSC5191A	NSC5346B

\*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 <sub>IH</sub> ≥ 0.7 V <sub>CC</sub> ) or OPEN	Oscillation output ON
Level L (V <sub>IL</sub> ≤ 0.3 V <sub>CC</sub> )	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. Please note that the "specification number" posted is subject to change.