

# Crystal Oscillator

NEW



## NP3225SC

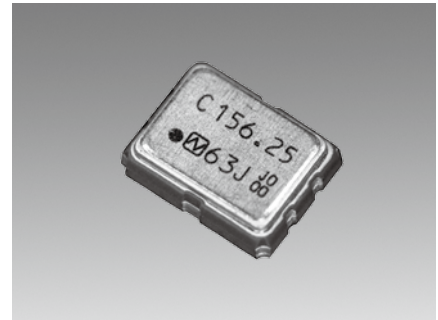
Simple Packaged Crystal Oscillator (SPXO)

### Main Application

For communication equipment for ISDN, SDH/SONET, WiMAX, etc. and Base-stations

### Features

- Compact dimension 3.2 × 2.5 × 0.9 mm
- Supply Voltage : +2.5V or +3.3V
- HCSL output level
- Excellent low phase jitter (Typ. 0.15ps @156.25MHz)



Pb Free

RoHS Compliant  
Directive 2011/65/EU

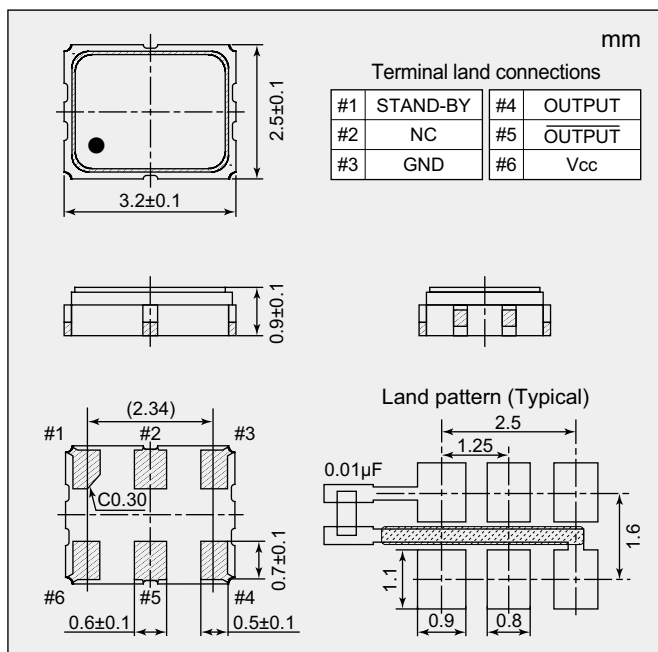
Absolute maximum rating  
Supply Voltage (V<sub>CC</sub>) -0.3 to +4.0 V  
Storage Temperature Range -55 to +125 °C

### Specifications

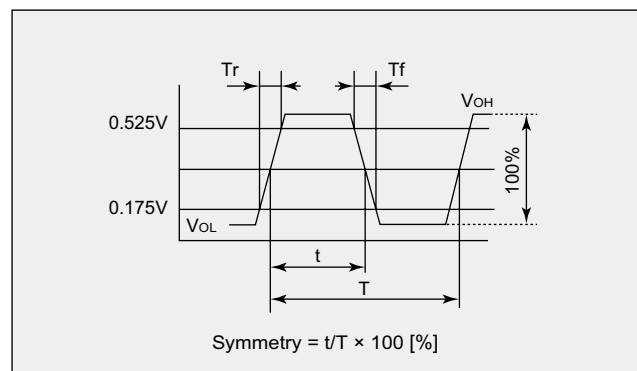
Item	Model	NP3225SC	
Output Type		HCSL	
Nominal Frequency Range (MHz)		100 to 170	
Overall Frequency Tolerance *1		Max. ±50 × 10 <sup>-6</sup>	
Operating Temperature Range (°C)		-40 to +85	
Supply Voltage [V <sub>CC</sub> ] (V)		+2.5 ± 5 %	+3.3 ± 10 %
Current Consumption	Enable (mA)	Max. 50 (STAND-BY=V <sub>CC</sub> or OPEN, R <sub>L</sub> =50Ω)	
	Stand-by (µA)	Max. 15 (STAND-BY=GND)	
Output Voltage (mV)		V <sub>OL</sub> : -150 to +150 (DC characteristics)	
		V <sub>OH</sub> : +660 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	NSC5082B

\*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.