

## 7311S

Simple Packaged Crystal Oscillator (SPXO)

### Main Application

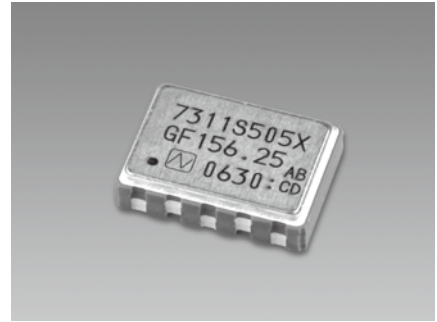
For SONET-, SDH-, and GbEthernet-related equipment

### Features

- Low power supply voltage (+3.3 V)
- LVPECL output level
- Supports a wide frequency range (62.5 to 313MHz)
- Low phase jitter : Max. 1ps

Pb Free

RoHS Compliant  
Directive 2011/65/EU



### Specifications

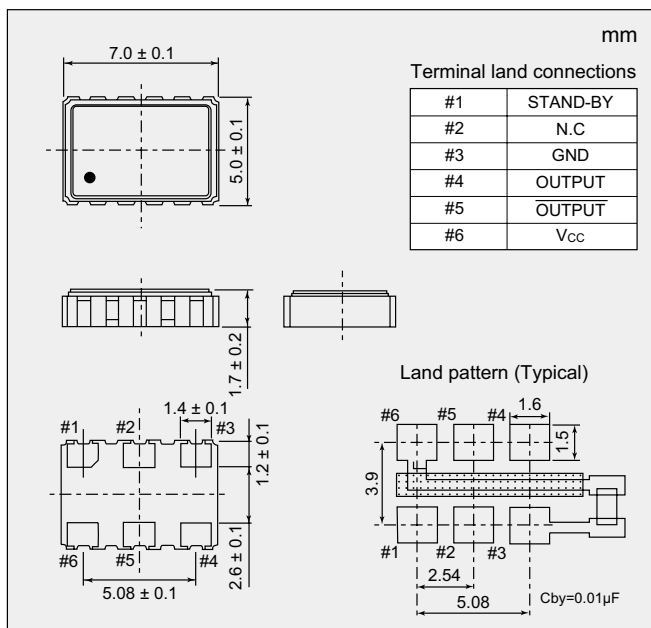
Item	Model	7311S	
Nominal Frequency Range (MHz)		62.5 to 220	62.5 to 313
Supply Voltage [V <sub>cc</sub> ] (V)		+3.3 ± 10 %	
Load Resistance (Ω)		50 (to V <sub>cc</sub> -2.0 V)	
Current Consumption	During operation (mA)	Max. 90 (Typ. 60 )	
	During standby (μA)	Max. 30	
Output Level		LVPECL (Complementary)	
Operating Temperature Range (°C)		0 to +70	0 to +85, -40 to +85
Storage Temperature Range (°C)		-55 to +125	
Frequency Tolerance		Max. ±25×10 <sup>-6</sup>	Max. ±50 ×10 <sup>-6</sup> , Max. ±100 ×10 <sup>-6</sup>
Symmetry (%)		45 to 55 (at 50% Waveform)	
Phase Jitter [ RMS ] (ps)		Max. 1 (12 kHz to 20 MHz)	
Stand-by function [ Three-state ]		Available	

### Specification Number

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

Frequency Tolerance	Operating Temperature Range (°C)	Classification	Specification Number	
			62.5 to 220MHz	220 to 313MHz
±25×10 <sup>-6</sup>	0 to +70	DF-255R	NSA3344A	-
±50×10 <sup>-6</sup>	0 to +85	DF-505X	NSA3345A	NSA3345E
±50×10 <sup>-6</sup>	-40 to +85	DF-505P	NSA3345G	NSA3345E
±100×10 <sup>-6</sup>	0 to +85	DF-104X	NSA3346A	NSA3346E
±100×10 <sup>-6</sup>	-40 to +85	DF-104P	NSA3346G	NSA3346E

### Dimensions



### 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