

Model Name 7311S-GG

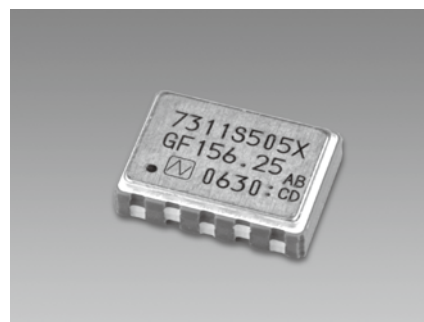
Simple Packaged Crystal Oscillator (SPXO) 7300 Series

■ Main Application

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

■ Features

- Low power supply voltage (2.5V)
- LVDS output level.
- Low phase jitter : Max. 1ps
- Compact with dimensions of 7.0 x 5.0 x 1.7 mm.



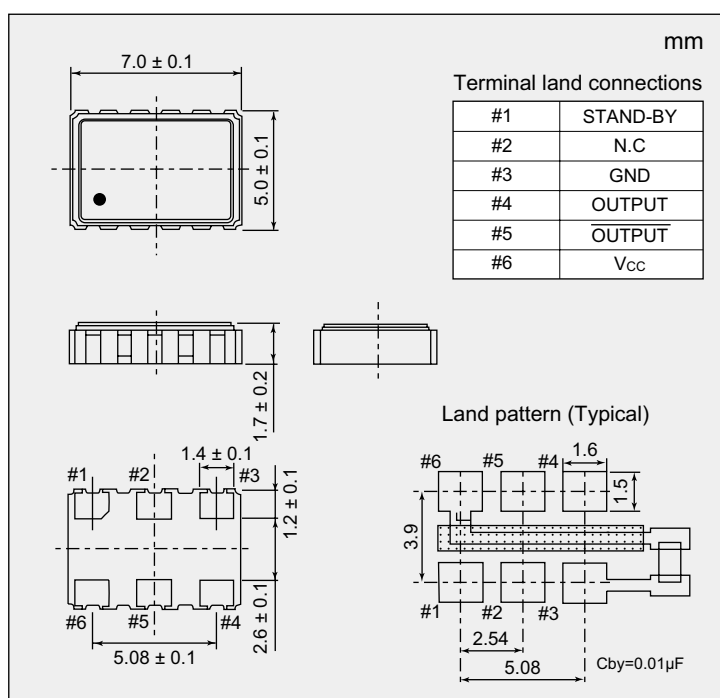
Pb
Free

RoHS Compliant
Directive 2011/65/EU

■ Specifications

Item	Model Classification	7311S				
		GG-255R	GG-505X	GG-104X	GG-505P	GG-104P
Nominal frequency range (MHz)		62.5 to 220				
Supply voltage [V _{CC}] (V)		+2.5 ± 5 %				
Load resistance		100 Ω (Pad #4 - #5)				
Current consumption	During operation	Max. 60 mA (Typ. 43 mA)				
	During standby	Max. 30 μA				
Output level		LVDS level (Complementary)				
Operating temperature range		0 to +70°C	0 to +85°C			-40 to +85°C
Storage Temperature Range		-55 to +125°C				
Frequency tolerance		Max. ±25×10 ⁻⁶	Max. ±50 ×10 ⁻⁶	Max. ±100 ×10 ⁻⁶	Max. ±50 ×10 ⁻⁶	Max. ±100 ×10 ⁻⁶
Symmetry		45 % to 55 % (at 50% Waveform)				
Phase jitter (RMS)		Max. 1ps (12 kHz to 20 MHz)				
Stand-by function (Three-state)		Available				
Number for specifying an order		NSA3344D	NSA3345D	NSA3346D	NSA3345M	NSA3346M

■ Dimensions



■ 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

■ How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following:

Model name	—	Frequency (up to 8 digits)	M	—	Number for specifying an order
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Example : When ordering +2.5 V,

Max. ±100×10⁻⁶/0 to 85 °C, 125 MHz

Ordering Code: 7311S-GG-104X-125M-NSA3346D

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (<http://www.ndk.com/>).