

Crystal Oscillator

Model Name 7311S-DG

Simple Packaged Crystal Oscillator (SPXO) 7300 Series

Main Application

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

Features

- Low power supply voltage (3.3V)
- LVDS output level.
- Low phase jitter : Max. 1ps
- Compact with dimensions of 7.0 x 5.0 x 1.7 mm.



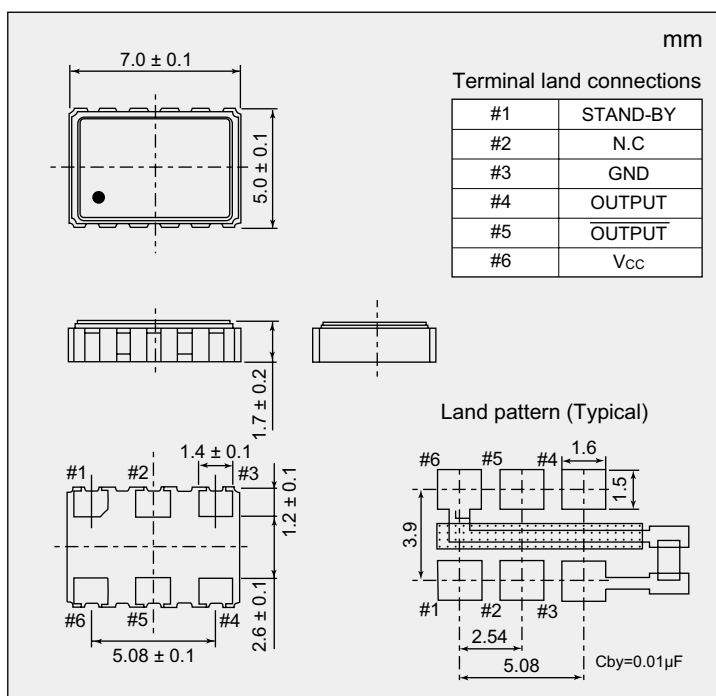
Pb Free

RoHS Compliant
Directive 2011/65/EU

Specifications

Item	Model	7311S				
	Classification	DG-255R	DG-505X	DG-104X	DG-505P	DG-104P
Nominal frequency range (MHz)		62.5 to 220				
Supply voltage [V _{CC}] (V)		+3.3 ± 10 %				
Load resistance (Ω)		100 (Pad #4 - #5)				
Current consumption	During operation (mA)	Max. 60 (Typ. 43)				
	During standby (μA)	Max. 30				
Output level		LVDS level (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 ⁻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] (ps)		Max. 1 (12 kHz to 20 MHz)				
Stand-by function [Three-state]		Available				
Number for specifying an order		NSA3344C	NSA3345C	NSA3346C	NSA3345L	NSA3346L

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

Example : When ordering +3.3 V,
Max. ±100×10⁻⁶/0 to 85 °C, 125 MHz
Ordering Code: 7311S-DG-104X-125M-NSA3346C

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/>).