

Crystal Oscillator

Model Name 7311Q Dual-Rate Voltage-Controlled Crystal Oscillator (DUAL RATE-VCXO®) 7300 Series

Main Application

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

Features

- Two frequency is selected by external input: 622.08 MHz or FEC rate.
- A surface-mount crystal oscillator.
- Complies with the RoHS Directive.

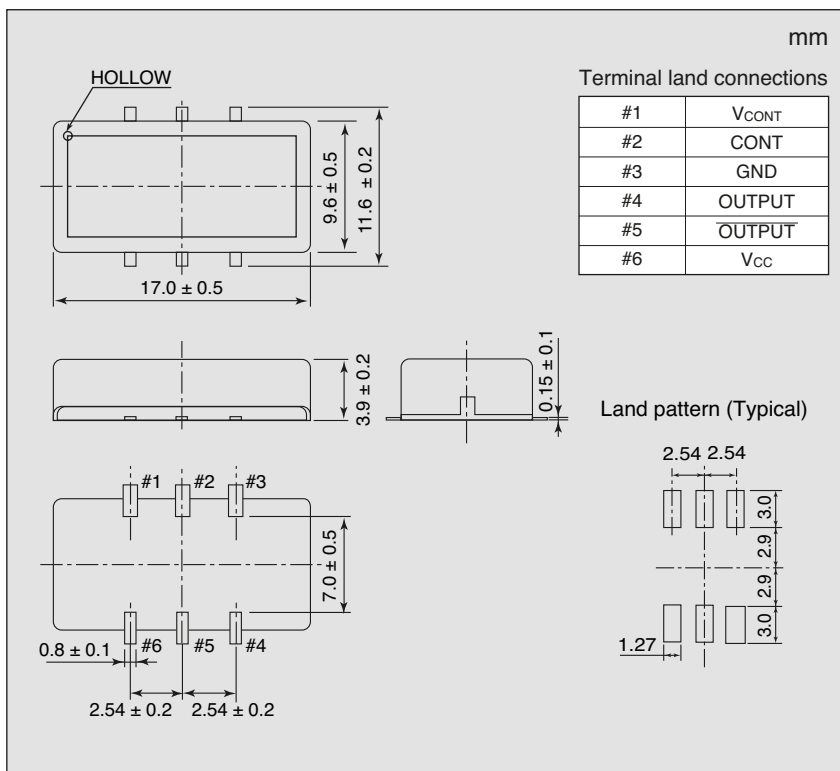


RoHS Compliant
Directive 2002/95/EC

Specifications

Item	Model Classification	7311Q ATVC1
Nominal frequency range (MHz)		622.08 / 644.5313, 622.08 / 666.5143, 622.08 / 669.3266
Supply voltage [V _{CC}] (V)		+3.3 ± 5 %
Current consumption (mA)		Max. 100
Output voltage		LVPECL (Complementary)
Symmetry (%)		40 to 60 (V _{CC} - 1.3 V)
Output load condition (LVPECL) (Ω)		50 (V _{CC} - 2.0 V)
Operating temperature range (°C)		-10 to +70
Overall frequency tolerance		Max. ± 50 × 10 ⁻⁶
Frequency control range		Min. ± 100 × 10 ⁻⁶ / + 1.65 ± 1.5 V
Frequency change polarity		Positive

Dimensions



List of Ordering Codes

Frequency (MHz)	Ordering Code
f1: 622.08 f2: 644.5313	7311Q-622M644M-NSA3342A
f1: 622.08 f2: 666.5143	7311Q-622M666M-NSA3342B
f1: 622.08 f2: 669.3266	7311Q-622M669M-NSA3342C

The above frequencies are NDK's standard frequencies. Frequencies other than the above are available. Feel free to contact our sales representatives.

Function Table

CONT. (#2)	OUTPUT (#4,#5)
L	FEC Rate
H	622.08 MHz

* High Level : Min. 2.0 V
Low Level : Max. 0.8 V