

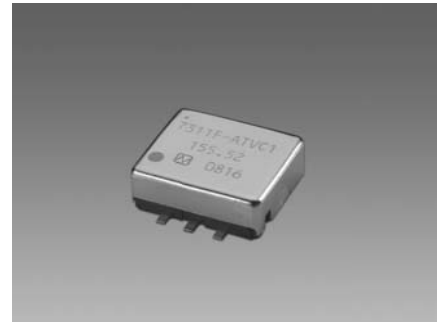
## Model Name 7311F Voltage-Controlled Crystal Oscillator (VCXO) 7300 Series

### Main Application

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

### Features

- Frequency range: 60 to 185 MHz.
- A surface-mount crystal oscillator.
- Complies with the RoHS Directive.

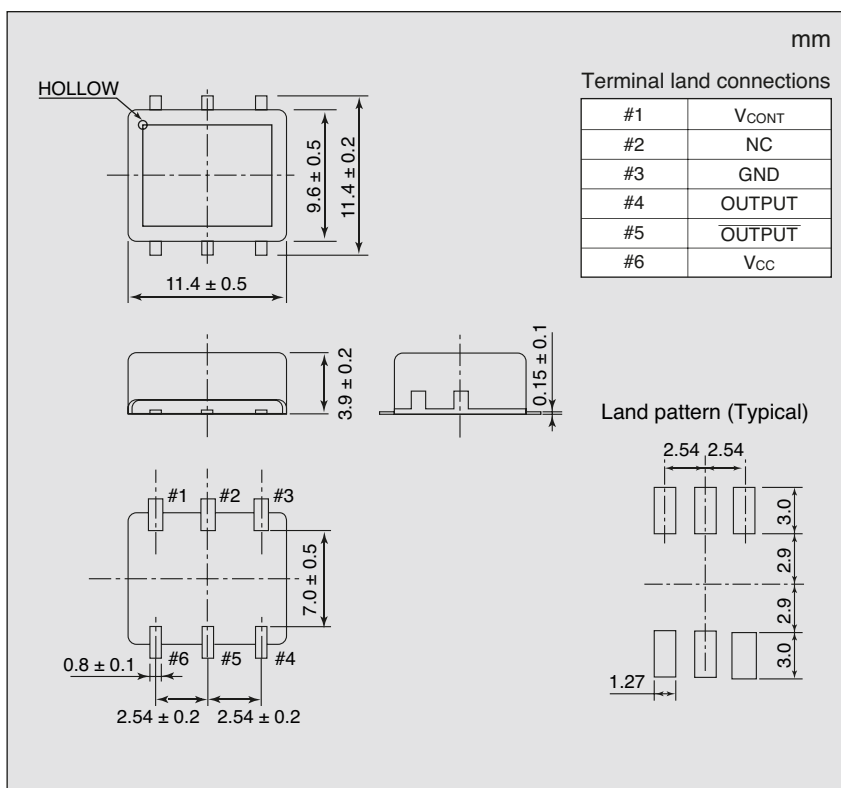


RoHS Compliant  
Directive 2002/95/EC

### Specifications

Item	Model Classification	7311F ATVC1
Nominal frequency range (MHz)		60 to 185
Supply voltage [V <sub>CC</sub> ] (V)		+3.3 ± 5 %
Current consumption (mA)		Max. 60
Output voltage		LVPECL (Complementary)
Symmetry (%)		40 to 60 (V <sub>CC</sub> - 1.3 V)
Output load condition (LVPECL) (Ω)		50 (V <sub>CC</sub> - 2.0 V)
Operating temperature range (°C)		-10 to +70
Overall frequency tolerance		Max. ± 50 × 10 <sup>-6</sup>
Frequency control range		Min. ± 100 × 10 <sup>-6</sup> / + 1.65 ± 1.5 V
Frequency change polarity		Positive

### Dimensions



### List of Ordering Codes

Frequency (MHz)	Ordering Code
125	7311F-125M-NSA3330A
155.52	7311F-155.52M-NSA3330A
156.1762	7311F-156.1762M-NSA3330A
156.25	7311F-156.25M-NSA3330A
160	7311F-160M-NSA3330A
161.1328	7311F-161.1328M-NSA3330A
166.6286	7311F-166.6286M-NSA3330A
167.3316	7311F-167.3316M-NSA3330A
172.6423	7311F-172.6423M-NSA3330A
173.3707	7311F-173.3707M-NSA3330A
176	7311F-176M-NSA3330A

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