

# Crystal Oscillator

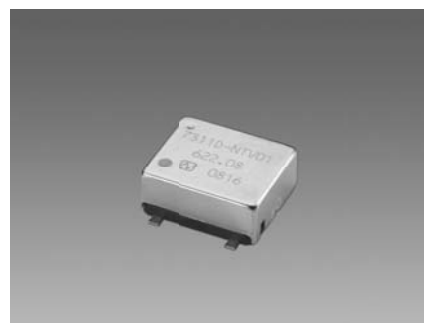
## Model Name 7311D Voltage-Controlled Crystal Oscillator (VCXO) 7300 Series

### ■ Main Application

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

### ■ Features

- Sine wave output.
- Frequency range: 600 to 780 MHz.
- A surface-mount crystal oscillator.
- Complies with the RoHS Directive.

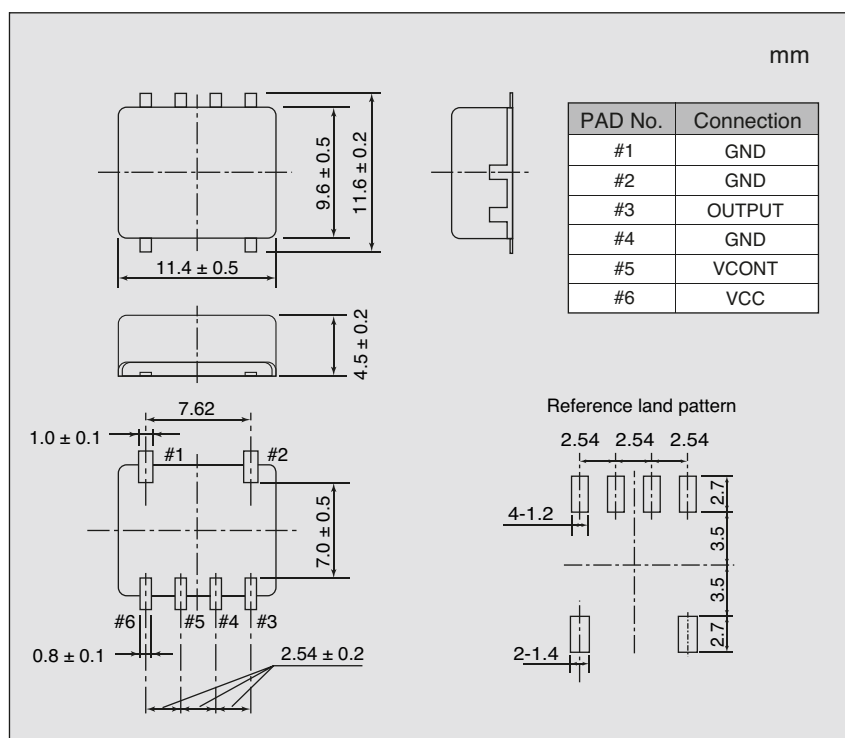


**RoHS Compliant**  
Directive 2002/95/EC

### ■ Specifications

| Item                             | Model          | 7311D                                          |
|----------------------------------|----------------|------------------------------------------------|
|                                  | Classification | NTV01                                          |
| Nominal frequency range (MHz)    |                | 600 to 780                                     |
| Power supply voltage [VCC] (V)   |                | +3.3 ± 5 %                                     |
| Current consumption (mA)         |                | Max. 60                                        |
| Output level (mW)                |                | Min. 1.0                                       |
| Load (Ω)                         |                | 50                                             |
| Operating temperature range (°C) |                | -10 to +70                                     |
| Frequency stability              |                | Max. ± 50 × 10 <sup>-6</sup>                   |
| Frequency control characteristic |                | Min. ± 100 × 10 <sup>-6</sup> / + 1.65 ± 1.5 V |
| Control polarity                 |                | Positive                                       |

### ■ Dimensions



### ■ List of Ordering Codes

| Frequency (MHz) | Ordering Code            |
|-----------------|--------------------------|
| 622.08          | 7311D-622.08M-NSA3325A   |
| 625             | 7311D-625M-NSA3325A      |
| 644.5313        | 7311D-644.5313M-NSA3325A |
| 666.5143        | 7311D-666.5143M-NSA3325A |
| 669.3266        | 7311D-669.3266M-NSA3325A |
| 683.75          | 7311D-683.75M-NSA3325A   |
| 697.5           | 7311D-697.5M-NSA3325A    |
| 704             | 7311D-704M-NSA3325A      |

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