

# Crystal Oscillator

## Model Name 9325D

Oven-Controlled Crystal Oscillator (OCXO)  
for Fixed Communication Equipment

### Main Application

- Measuring instrument
- Synthesizer
- High-end router

### Features

- Compact, with a low height.
- Supports High Frequency(100MHz).
- Excellent phase noise characteristics. (-160dBc/Hz at 10kHz).
- Using SC-Cut Crystals.

Pb Free

RoHS Compliant  
Directive 2011/65/EU



### Specifications

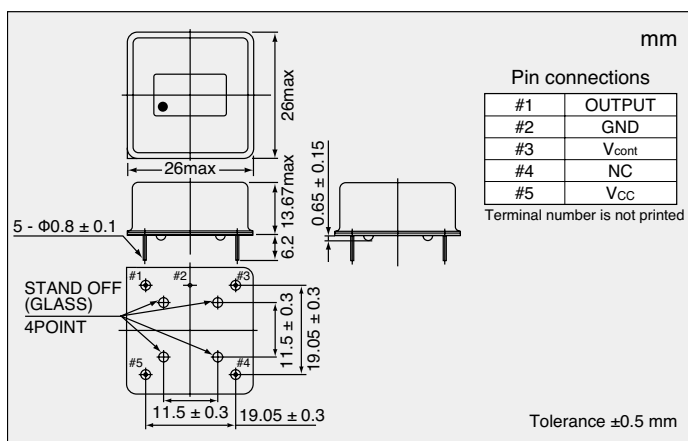
Item	Measurement condition	Model	9325D
Nominal frequency (MHz)			100
Supply voltage [V <sub>cc</sub> ] (V)			+12 ±5 %
Power consumption (W)	at start		Max. 3
	when stable (+25 °C)		Max. 1.3
Output level (dBm)			Min. 3
Load impedance (Ω)			50
Operating temperature range (°C)			-20 to +70
Storage temperature range (°C)			-40 to +85
Stabilization time	Stabilization Time(Frequency Tolerance) within ±50 ×10 <sup>-9</sup> after power on at +25 °C , based on frequency after 60 minutes operation		Max. 5 minutes
Long-term frequency stability	Based on frequency after 30 days operation		Max. ±500×10 <sup>-9</sup> /year
Frequency/Temperature characteristics	-20 to +70 °C		Max. ±50×10 <sup>-9</sup>
Frequency control range	V <sub>cont</sub> +5 ± 5 V		Min. ±3×10 <sup>-6</sup>
Frequency change polarity			Positive

### Reference Value

Phase noise (at 100 MHz)	Offset frequency	dBc/Hz
	100 Hz	-125
	1 kHz	-150
	10 kHz	-160

The value of phase noise changes when the frequency changes.

### Dimensions



### List of Ordering Codes

Nominal frequency (MHz)	Ordering Code
100	9325D-100M-NSA3403A

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