

# Crystal Oscillator

## Model Name 9740C

## Oven-Controlled Crystal Oscillator (OCXO) 9700 Series

### Main Application

Mobile communication base station

### Features

- Excellent phase noise characteristics. (Compared to NDK's existing products, phase noise characteristics have improved by 10 dB with the offset frequency at 1 kHz or more.)
- Excellent aging characteristics.



RoHS Compliant  
Directive 2002/95/EC

### Specifications

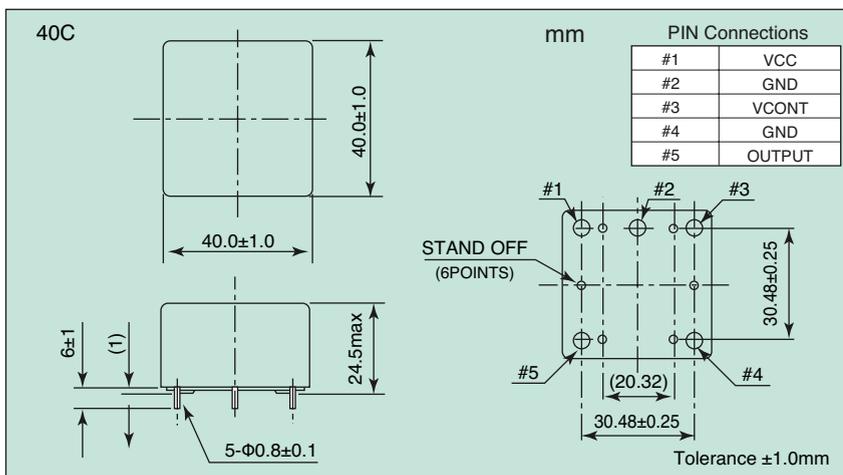
Item	Model Classification	9740C	
		CDE01	BDE01
Output frequency (MHz)		5	10
Operating temperature range		-10 to +60°C	
Power supply voltage		DC+12V±10%	
Consumption current		4.5Wmax	
Output level		1mWmin (0dBm min)	5mWmin (+7dBm min)
Load		50Ω	
Aging		±5×10 <sup>-10</sup> max/day, ±2×10 <sup>-9</sup> max/year *1	±2×10 <sup>-9</sup> max/day, ±8×10 <sup>-9</sup> max/year *1
Frequency / temperature characteristics		±2×10 <sup>-9</sup> max/-10 to +60°C	
Power supply variation characteristics		±2×10 <sup>-9</sup> max/DC+12V±10%	
Frequency control characteristic		±3×10 <sup>-7</sup> min/0.5 to +9.5V	±1×10 <sup>-6</sup> min/0.5 to +9.5V
Frequency warm-up characteristic		±5×10 <sup>-9</sup> max (+25°C in 20 minutes after power is on)	
Case code		40C	

\*1 It is based on frequency after 48 hours operation.

### Reference Value

Phase noise dBc/Hz	Offset frequency	CDE01	BDE01
	1 Hz	-100 max.	-90 max.
	10 Hz	-130 max.	-120 max.
	100 Hz	-140 max.	-140 max.
	1k Hz	-150 max.	-150 max.
	10k Hz	-155 max.	-155 max.

### Dimensions



### List of Ordering Codes

Frequency (MHz)	Ordering Code
5	9740C-5M-NSA3276A
10	9740C-10M-NSA3276B

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