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.



■ Specifications

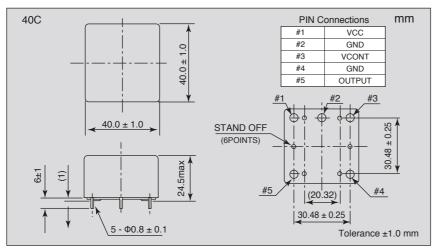
Model		9740C		
Item Classification			CDE01	BDE01
Standard nominal frequency (MHz)			5	10
Po	wer supply voltage [VCC] (V)		+12 ±10 %	
Power consumption (W)			Max. 4.5	
Output level			Min. 1 mW (Min. 0 dBm)	Min. 5 mW (Min. 7 dBm)
Load (Ω)			50	
Ор	erating temperature range (°C)		-10 to +60	
Frequency stability	Frequency warm-up characteristics	+25 °C twenty minutes after power is on Based on frequency after 60 minutes operation	Max. ±50×10⁻ ⁹	
	Aging	Based on frequency after 48 hours operation	Max. ±0.5×10 ⁻⁹ /day	Max. ±2×10 ⁻⁹ /Day
		Based on frequency after 48 hours operation	Max. ±20×10 ⁻⁹ /year	Max. ±80×10 ⁻⁹ /Year
	Frequency / temperature characteristics	−10 °C to +60 °C	Max. ±20×10 ⁻⁹	
	Power supply variation characteristics	VCC +12 V ±10 %	Max. ±2×10 ⁻⁹	
Frequency control characteristics +5.0 ±4.5 V		Min. ±0.3×10 ⁻⁶	Min. ±1.0×10 ⁻⁶	
Со	ntrol polarity		Positive	
Case code			40C	

^{*1} It is based on frequency after 48 hours operation.

■ Reference Value

	Offset frequency	CDE01	BDE01
	1 Hz	Max100	Max90
Phase noise (dBc/Hz)	10 Hz	Max130	Max120
Fridate fibiate (dbc/Fiz)	100 Hz	Max140	Max140
	1 kHz	Max150	Max150
	10 kHz	Max155	Max155

■ 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.