

CRYSTAL OSCILLATORS

OVEN CONTROLLED OSCILLATORS 9700 SERIES

Model 9740C

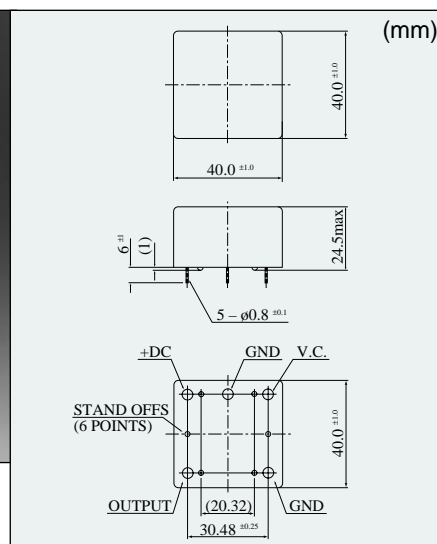
- Main applications : Mobile communication system
- Features
 - Excellent phase noise characteristics, improved by 10dB at OFFSET frequency 1kHz min compared with current NDK model.
 - Excellent Aging.
 - Low profile.

Specification

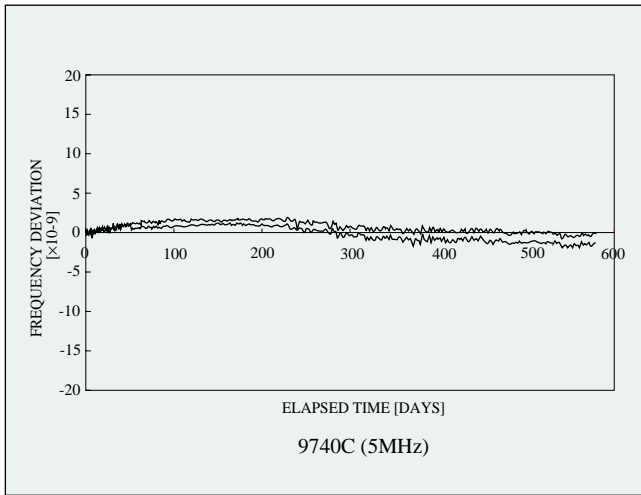
Item	Model	9740C		
	Spec. Code	CDE01	BDE01	DXB01
Nominal Frequency (MHz)		5	10	60~70
Operating Temp. Range		-10~+60°C		0~+60°C
Supply Voltage		+12VDC		
Power Consumption		4.5W max		
Output Power		1mW min (0dBm min)	5mW min (+7dBm min)	0.25 ~ 1.00mW (-3±3dBm)
Load		50Ω		
Aging		±5×10 ⁻¹⁰ max/day *1 ±2×10 ⁻⁸ max/year *1	±2×10 ⁻⁹ max/day *1 ±8×10 ⁻⁸ max/year *1	±2×10 ⁻⁸ max/day *1 ±3×10 ⁻⁷ max/year *2
Frequency Temp. Charact.		±2×10 ⁻⁸ max/-10~+60°C		±2×10 ⁻⁷ max/0~+60°C
Frequency Supply Volt Change		±2×10 ⁻⁹ max/+12V±10%		±2×10 ⁻⁸ max/+12V±5%
Frequency Trim Range		±3×10 ⁻⁷ min/+0.5~+9.5V	±1×10 ⁻⁶ min/+0.5~+9.5V	-2.5×10 ⁻⁶ max/VC=-3V +2.5×10 ⁻⁶ min/VC=-11V
Phase Noise		1Hz OFFSET -100dBc/Hz max 10Hz OFFSET -130dBc/Hz max 100Hz OFFSET -140dBc/Hz max 1kHz OFFSET -150dBc/Hz max 10kHz OFFSET -155dBc/Hz max	1Hz OFFSET -90dBc/Hz max 10Hz OFFSET -120dBc/Hz max 100Hz OFFSET -140dBc/Hz max 1kHz OFFSET -150dBc/Hz max 10kHz OFFSET -155dBc/Hz max	10Hz OFFSET -90dBc/Hz max 100Hz OFFSET -120dBc/Hz max 1kHz OFFSET -140dBc/Hz max 10kHz OFFSET -150dBc/Hz max
Frequency Warm-up Charact.		±5×10 ⁻⁸ max (20minutes after power on, +25°C)		±3×10 ⁻⁷ max (20minutes after power on, +25°C)
Case Code		40C		

Note: *1 ... After 48 hours operation
*2 ... After 10 days operation

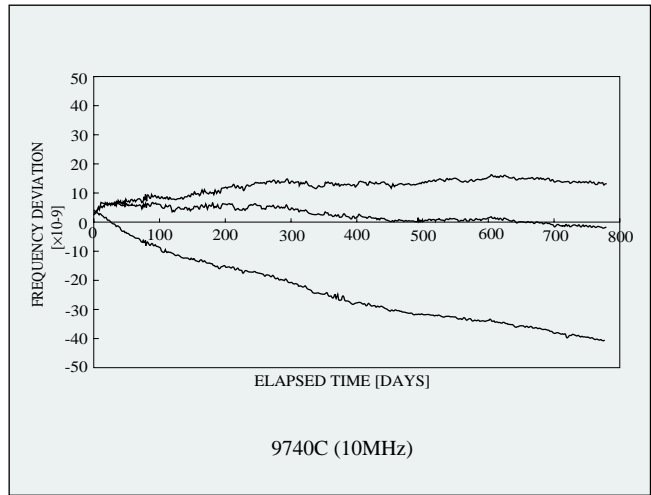
Dimensions



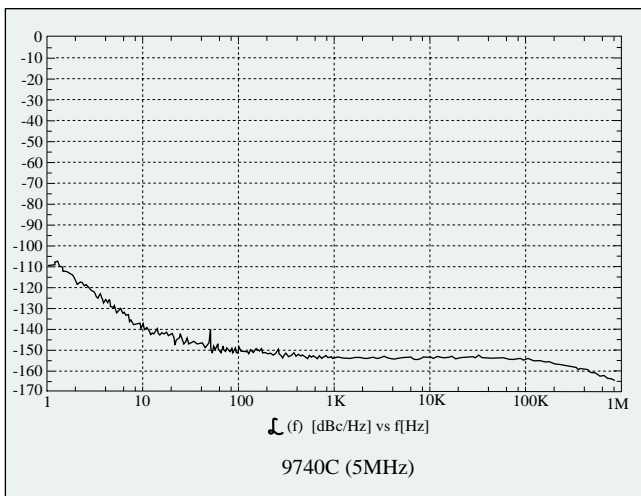
■ Frequency Aging (example)



■ Frequency Aging (example)



■ Phase Noise Characteristics (example)



■ Phase Noise Characteristics (example)

