



PRODUCTS

Oven Controlled Crystal Oscillator (Through Hole)

Typical Applications:

- Data Communications
- Telecommunication System
- Instrumentation

OC10 Series

(Through Hole Oven Controlled Crystal Oscillator Series)

Part Number: OC10 Series - Waveform - Stability - Freq - Vcc - Pulling

Example: OC10HB-13.000-12.0V-D

■ Specification

OC10

Part No.	Example
OC10 Series - Waveform - Stability - Freq - Vcc-Pulling	OC10HB-13.000-12.0V-D

Specification	OC10	
Frequency Range	1.250 ~ 40.000 MHz	
Output Waveform	HCMOS / TTL / Low Voltage CMOS	
Frequency Stability vs. Temperature	A: $\pm 5 \times 10^{-8}$ 0 °C to +60 °C D: $\pm 5 \times 10^{-9}$ 0 °C to +60 °C	
	B: $\pm 1 \times 10^{-7}$ -30 °C to +70 °C E: $\pm 1 \times 10^{-8}$ -30 °C to +70 °C	
	C: $\pm 2.5 \times 10^{-7}$ -40 °C to +80 °C F: $\pm 2 \times 10^{-8}$ -40 °C to +80 °C	
Short Term Stability	2×10^{-10} / sec or 2×10^{-11} / sec	
Rise and Fall Time	6 nsec max. (10% / 90% Vout)	
Frequency Stability vs. Load Deviation	± 0.01 ppm/year max. @ $\pm 5\%$ delta or ± 0.003 ppm/year max. @ $\pm 5\%$ delta	
Frequency Stability vs. Supply Deviation	± 0.015 ppm/year max. @ $\pm 5\%$ delta or ± 0.002 ppm/year max. @ $\pm 5\%$ delta	
Frequency Stability vs. Aging	± 0.3 ppm/year or ± 0.05 ppm/year	
Supply Voltage (Vcc)	12V, 5V, 3.3 (optional)	
Power Dissipation (Steady State)	1.5W max.	
Heat Up Power	3.6W max.	
Heat Up Time	3 mins max.	
Duty Cycle	40 / 60% (at 50% Vcc)	
Pulling	N: No frequency adjustment / D: ± 4 ppm (typ.) / E: ± 0.5 ppm (typ.)	
Phase Noise	Offset	Phase Noise
	10Hz	-100dBc/Hz
	100Hz	-135dBc/Hz
	1KHz	-145dBc/Hz
	10KHz	-150dBc/Hz

Note: This is a typical parameter spec., please contact us for detail specification sheet.

HIGH PRECISION OSCILLATOR



■ Dimension

(Unit: mm)

