PRODUCTS **Oven Controlled Crystal Oscillator (Through Hole)**

Typical Applications:

- **Data Communications**
- **Telecommunication System**
- **Instrumentation**

OC10 series
(Oven Controlled Crystal Oscillator Through Hole Series)

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

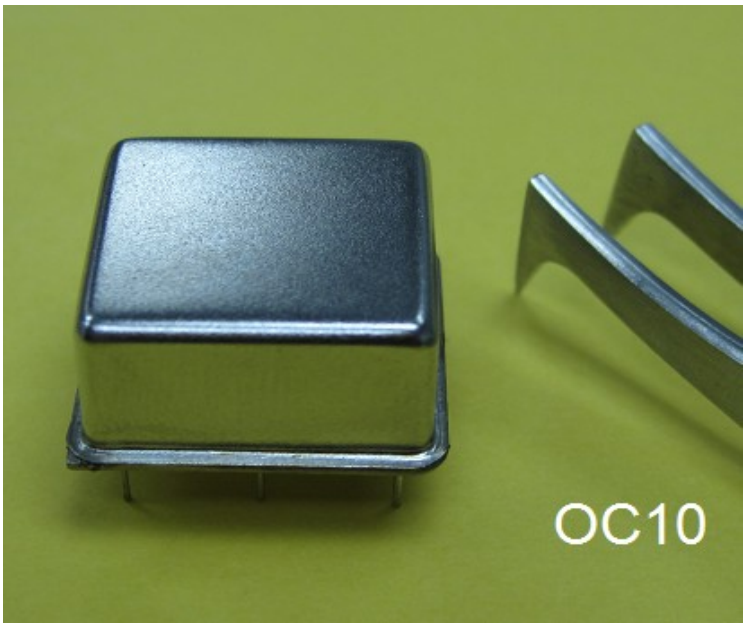
Example: OC10HB-13.000-12.0V-D

■ Specification

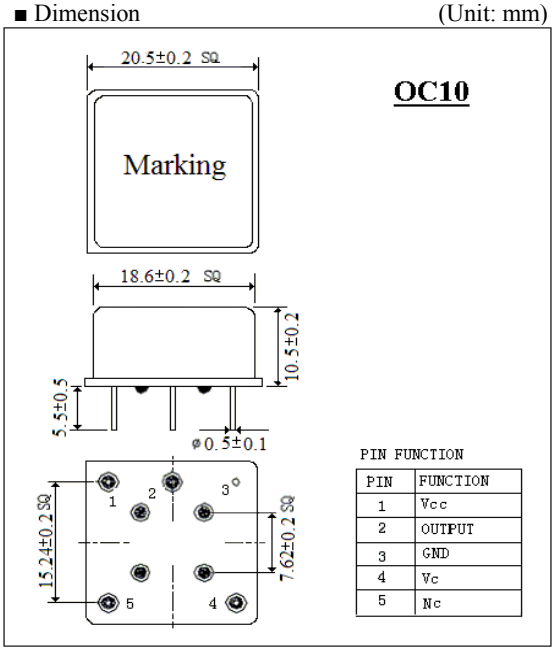
Part No.	Example
OC10 series - Waveform - Stability - Freq - Vcc-Pulling	OC10HB-13.000-12.0V-D

Specification	OC10			
Frequency Range	1.250 ~ 40.000 MHz			
Output Waveform	HCMOS / TTL / Low Voltage CMOS			
Frequency Stability vs. Temperature	A: ±5x10^{-8}	0°C to +60°C	D: ±5x10^{-9}	0°C to +60°C
	B: ±1x10^{-7}	-30°C to +70°C	E: ±1x10^{-8}	-30°C to +70°C
	C: ±2.5x10^{-7}	-40°C to +80°C	F: ±2x10^{-8}	-40°C to +80°C
Short Term Stability	2x10^{-10} / sec or 2x10^{-11} / sec			
Rise and Fall Time	6 nsec max. (10% / 90% Vout)			
Frequency Stability vs. Load Deviation	±0.01ppm/year max. @ ±5% delta or ±0.003ppm/year max. @ ±5% delta			
Frequency Stability vs. Supply Deviation	±0.015ppm/year max. @ ±5% delta or ±0.002ppm/year max. @ ±5% delta			
Frequency Stability vs. Aging	±0.3ppm/year or ±0.05ppm/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: ±4ppm (typ.) / E: ±0.5ppm (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.



■ Dimension (Unit: mm)



HIGH PRECISION OSCILLATOR