



**PRODUCTS**

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

**Typical Applications:**

- Data Communications
- Telecommunication System
- Instrumentation

# OC30 Series (Through Hole Oven Controlled Crystal Oscillator Series)

**Part Number: OC30 Series - Waveform - Stability - Freq - Vcc - Pulling**

**Example: OC30HA-10.000-5.0V-D**

**Specification**

**OC30**

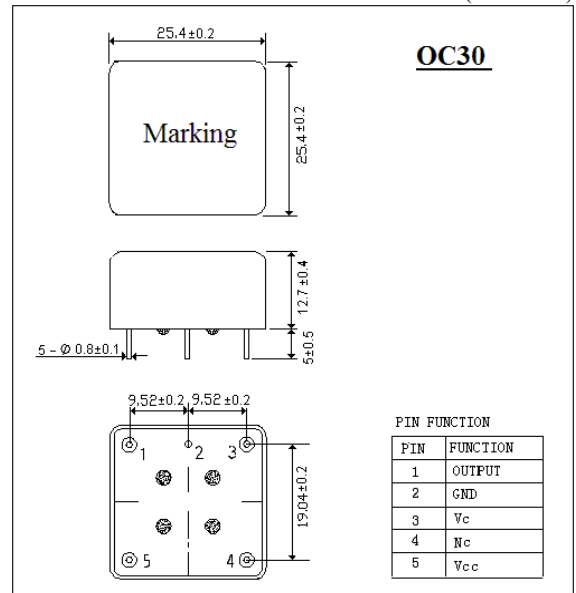
Part No.	Example
OC30 Series - Waveform - Stability - Freq - Vcc - Pulling	OC30HA-10.000-5.0V-D

Specification	OC30	
Frequency Range	1.250 ~ 40.000MHz	
Output Waveform	HCMOS / TTL / Sine	
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	$1 \times 10^{-10}$ / sec or $1 \times 10^{-11}$ / sec	
Rise and Fall Time	6 nsec max. (HCMOS 10% / 90% Vout)	
Frequency Stability vs. Load Deviation	$\pm 0.01$ ppm/year max. @ $\pm 5\%$ delta or $\pm 0.003$ ppm/year max. @ $\pm 5\%$ delta	
Frequency Stability vs. Supply Deviation	$\pm 0.015$ ppm/year max. @ $\pm 5\%$ delta or $\pm 0.002$ ppm/year max. @ $\pm 5\%$ delta	
Frequency Stability vs. Aging	$\pm 0.5$ ppm/year or $\pm 0.1$ ppm/year	
Supply Voltage (Vcc)	12V, 5V, 3.3V (optional)	
Power Dissipation (Steady State)	1.5W max.	
Heat Up Power	4.0W max.	
Heat Up Time	3 mins max.	
Duty Cycle	40 / 60% ( HCMOS)	
Pulling	N: No frequency adjustment / D: $\pm 4$ ppm (typ.) / E: $\pm 0.5$ ppm (typ.)	
Phase Noise	<b>Offset</b>	<b>Phase Noise</b>
	10Hz	-115dBc/Hz
	100Hz	-135dBc/Hz
	1KHz	-145dBc/Hz
	10KHz	-155dBc/Hz

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



**Dimension** (Unit: mm)



**HIGH PRECISION OSCILLATOR**