



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

Typical Applications:

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

OC30 series (Oven Controlled Crystal Oscillator Through Hole Series)

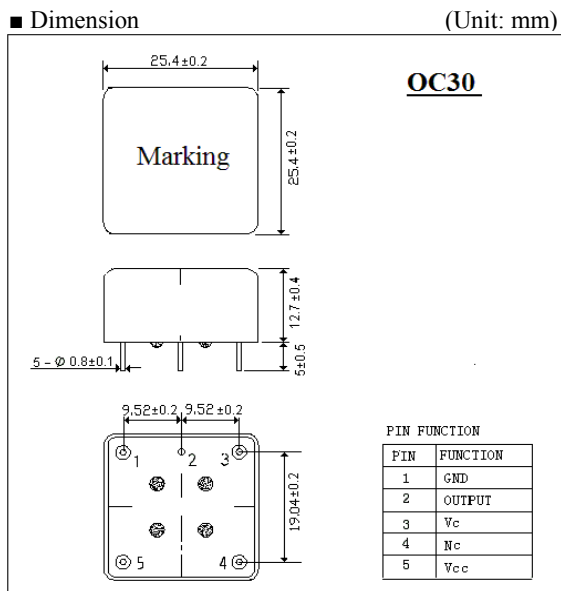
Part Number: OC30 series - Waveform - Stability - Freq - Vcc - Pulling

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	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">A: $\pm 5 \times 10^{-8}$</td> <td style="width: 33%;">0°C to +60°C</td> <td style="width: 33%;">D: $\pm 5 \times 10^{-9}$</td> <td style="width: 33%;">0°C to +60°C</td> </tr> <tr> <td>B: $\pm 1 \times 10^{-7}$</td> <td>-30°C to +70°C</td> <td>E: $\pm 1 \times 10^{-8}$</td> <td>-30°C to +70°C</td> </tr> <tr> <td>C: $\pm 2.5 \times 10^{-7}$</td> <td>-40°C to +80°C</td> <td>F: $\pm 2 \times 10^{-8}$</td> <td>-40°C to +80°C</td> </tr> </table>	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
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Short Term Stability	1×10^{-10} / sec or 1×10^{-11} / sec												
Rise and Fall Time	6 nsec max. (HCMOS 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	± 0.5 ppm/year or ± 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: ± 4 ppm (typ.) / E: ± 0.5 ppm (typ.)												
Phase Noise	Offset	Phase Noise											
	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.



HIGH PRECISION OSCILLATOR