

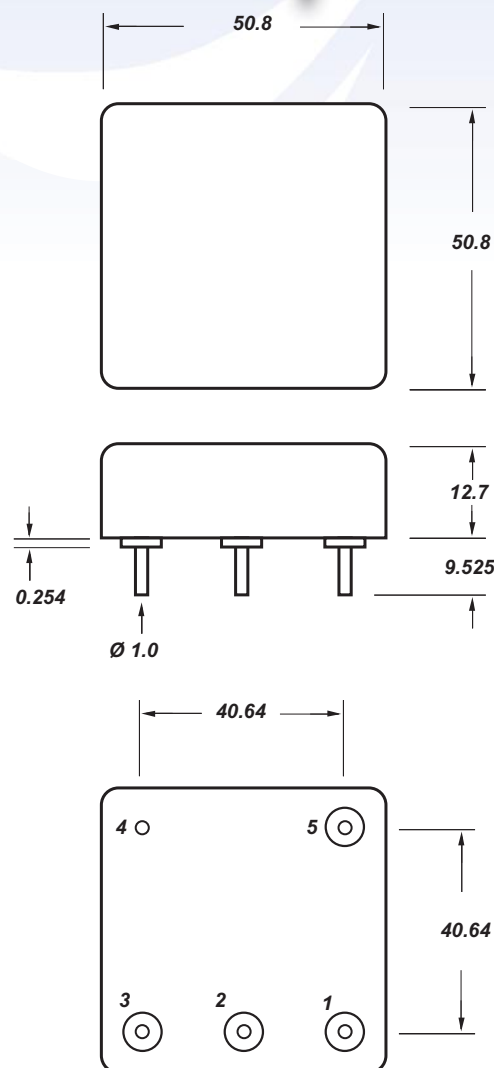
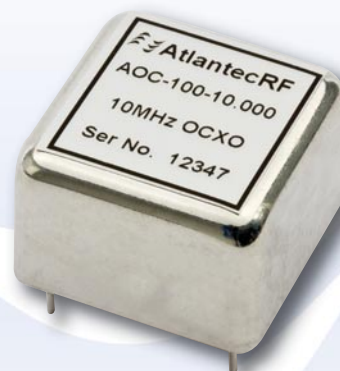
Oscillator OCXO

Model No. AOC-100-10.000

- Frequency 10MHz
- Temperature Stability ± 5 ppb max.
- Low Phase Noise
- Low Harmonics

General Specifications

Nominal Frequency	10MHz
Frequency Stability	
with Temperature	± 5 ppb max.
with Supply Voltage	± 0.5 ppb max. for a $\pm 5\%$ change
with Load	± 0.5 ppb max. for a $\pm 5\%$ change
with Ageing Per Year	± 20 ppb max.
All causes after 2 years	± 50 ppb max.
Calibration @ +25C	
Tolerance (1 hour after switch on)	± 50 ppb max. with 2.5V applied to Pin 1
Within 10 minutes after switch on	± 10 ppb max. w.r.t. frequency tolerance
Operating Temperature Range	0 to +50C
Storage Temperature Range	-55 to +85C
Supply Voltage	+12.0V d.c. $\pm 5\%$
Supply Current @ +25C	
During Warm-up	500mA max.
Steady State	200mA max.
Output Characteristics	
Waveform	Sinewave
Output Level	10 ± 3 dBm
Load Impedance	50 Ohms $\pm 5\%$
Harmonic Suppression	> 30dBc
Spurious	
< +1MHz of nominal frequency	< -125dBc
> +1MHz of nominal frequency	< -100dBc
Frequency Adjustment	
Frequency Range (Electrical)	± 400 ppb min. over voltage control range applied to Pin 1
Voltage Control Range	0 to +5V
Reference Voltage Output	+5V
Slope	Positive, increasing control voltage increases output frequency
Linearity	10% max.
Mechanical	
Shock	75g for 3ms
Vibration	10-200Hz at 5g
Terminals	SnAgCu
Dimensions	50.8 x 50.8 x 12.7 mm
RoHs Compliant	



Phase Noise Response

Offset Frequency Hz	(dBc/Hz) typical
10	-120
100	-140
1K	-155
10K	-160

Pin Connections

1	Voltage Control
2	Reference Voltage Output
3	Output
4	Ground / Case
5	Supply Voltage

We reserve the right to change standard product specifications without notice but will be pleased to consider control drawings for quotation.

All Dimensions and Tolerances are in mm

Oscillators