

Oscillator OCXO

Model No. AOC-020-10.000

- Frequency 10MHz
- Temperature Stability ± 0.02 ppm max. over -20 to +60C
- Short Term Stability ± 0.005 ppm max. per day
- Low Phase Noise
- Low Harmonics

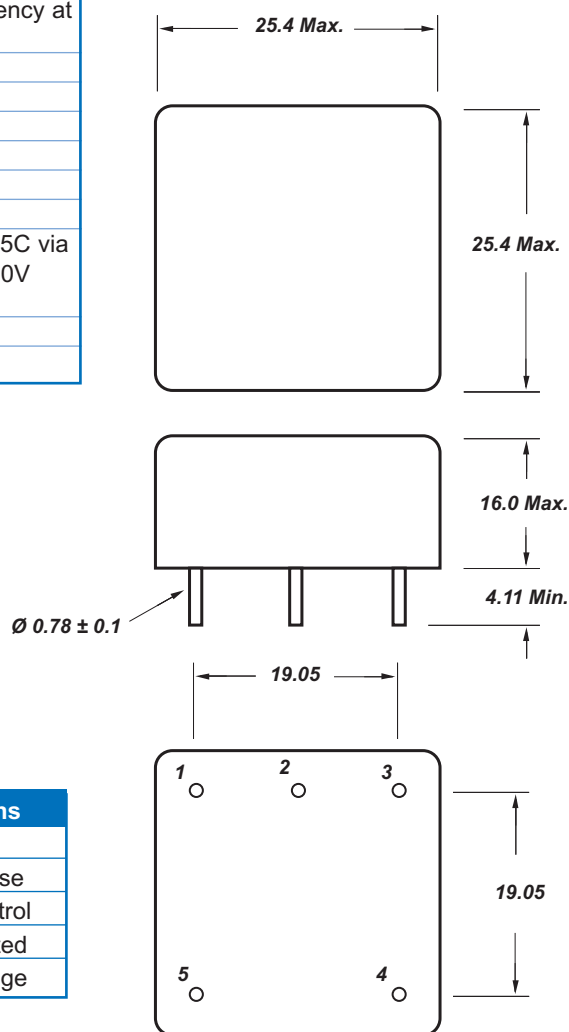


General Specifications	
Nominal Frequency	10MHz
Frequency Stability	
with Temperature	± 0.02 ppm max. over -20 to +60 w.r.t. nominal frequency at +25C
with Time (Long term)	± 0.1 ppm per year max. at +25C
with Time (Short term)	± 0.005 ppm max. per day
with Supply Voltage	± 0.01 ppm max. for a $\pm 5\%$ change
with Load	± 0.01 ppm max. for a $\pm 5\%$ change
Operating Temperature Range	-20 to +60C
Storage Temperature Range	-40 to +85C
Supply Voltage	+15.0V d.c. $\pm 5\%$
Supply Current	300mA max. at switch on (150mA max. steady state at +25C)
Warm up time	3 minutes to be within ± 50 ppb of final frequency at +25C
Output Characteristics	
Waveform	Sinewave A.C. Coupled
Output Level	5dBm min.
Load Impedance	50 Ohms
Harmonics	-30dBc max.
Non-Harmonics	-80dBc max.
Frequency Adjustment Range	± 0.5 ppm min. w.r.t. nominal frequency at +25C via an external control voltage range of 0V to +4.0V applied to Pin 3
Dimensions	25.4 x 25.4 x 16.0 mm
RoHs Compliant	

Phase Noise Response	
Offset Frequency Hz	(dBc/Hz) typical
10	-110
100	-130
1K	-140
10K	-150
100K	-155
1M	-155

Pin Connections	
1	RF Out
2	Ground / Case
3	Voltage Control
4	Not Connected
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