OVEN CONTROLLED CRYSTAL OSCILLATOR



AOCJY6 Series

FEATURES:

- Exceptional Frequency Stability: ± 0.10 ppb, ± 0.20 ppb, ± 0.50 ppb over the operating temperature range of -20°C to +70°C
- SC-Cut, High "Q" resonator based design yielding excellent close to the carrier Phase Noise
- 10.0MHz carrier frequency
- Tuned Sinewave output into a 50Ω load
- Industry Standard, 51x41x25 mm, RoHS compliant & Pb free package

STANDARD SPECIFICATIONS:



- Stratum II clock
- WiMax, LTE
- Precision timing and frequency standards

RoHS

Compliant

- Test & Measurement Equipment
- GPS Tracking with precision hold-over accuracy

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Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency		10.000	1	MHz	
Supply Voltage	+11.4	+12.0	+12.6	V	
Supply Current (Start up)			800	mA	
Supply Current (Stabilized)			300	mA	
Sine Output Level (with 50Ω load)	5	8	11	dBm	
Harmonics (Reference to Carrier)			-30	dBc	
Phase Noise (SSB @1Hz)			-90	dBc/Hz	
Phase Noise (SSB @10Hz)			-120	dBc/Hz	
Phase Noise (SSB @100Hz)			-135	dBc/Hz	
Phase Noise (SSB @1KHz)			-145	dBc/Hz	
Phase Noise (SSB @10KHz)			-150	dBc/Hz	
Phase Noise (SSB @100KHz)			-150	dBc/Hz	
Adjust. Tolerance (Typ. control voltage)			±50	ppb	
Freq vs Supply (Vs±5%)			±0.1	ppb	
Freq vs Load (Load±5%)			±0.05	ppb	
Freq vs Temp (Ref to Freq $@25^{\circ}C$)			±0.1	ppb	See options
Operating Temp	-20	25	+70	°C	
Aging per day			±0.1	ppb	
Aging per month			±5	ppb	
Aging per year(After 30 days)			±20	ppb	
Short term stability (1S)			±0.005	ppb	
Warm Up (10mn-2Hr on)			±10	ppb	
Control Voltage	0	3	6	V	
Pulling Range	±300	± 400	±500	ppb	
Linearity			5		
Reference Voltage	5.9	6	6.1	V	
Storage temperature	-40		+85	°C	
Spurious in the frequency range to 1MHz			-70	dBc	

By default, AOCJY6 OCXO is constructed with the following key specifications:

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- i) **Supply Voltage**
- 12.00 Volts
- **Operating Temperature Range** ii) iii) **RF** Output
- -20°C to +70°C
- Pure Sinewave into 50Ω =



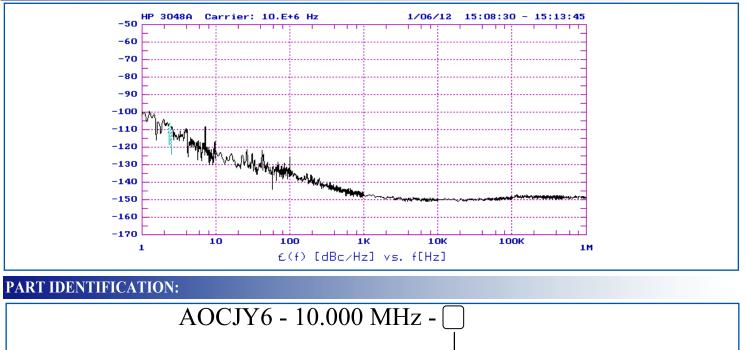
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51 x 41 x 25 mm Leaded

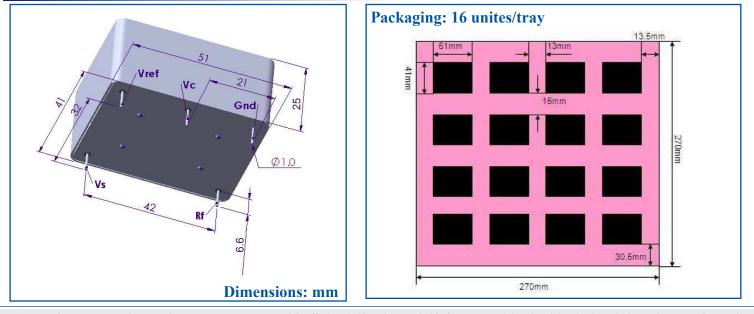
TYPICAL PHASE NOISE PERFORMANCE:



F vs Temp. (ppb) 1: ±0.1 2: ±0.2 5: ±0.5

OUTLINE DRAWING:

PACKAGING:



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.





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