OVEN CONTROLLED CRYSTAL OSCILLATOR

AOCJY6 Series







- 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

> APPLICATIONS:

- Stratum II clock
- WiMax, LTE
- Precision timing and frequency standards
- Test & Measurement Equipment
- GPS Tracking with precision hold-over accuracy

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency		10.000		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°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	$^{\circ}\mathrm{C}$	
Spurious in the frequency range to 1MHz			-70	dBc	

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

i) Supply Voltage = 12.00 Volts ii) Operating Temperature Range = -20°C to +70°C

iii) RF Output = Pure Sinewave into 50Ω





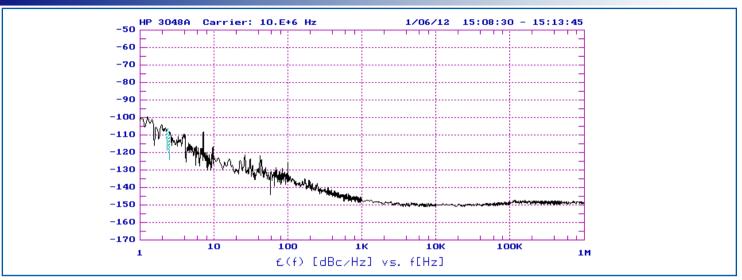
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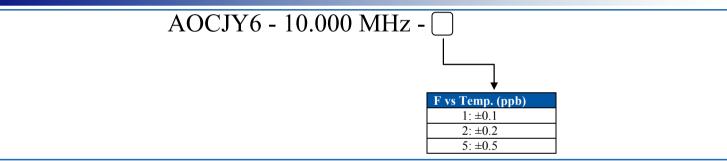




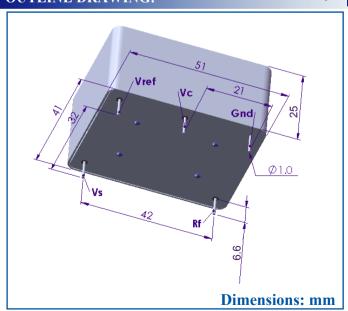
TYPICAL PHASE NOISE PERFORMANCE:



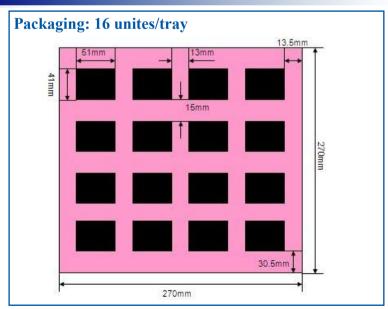
PART IDENTIFICATION:



OUTLINE DRAWING:



PACKAGING:



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