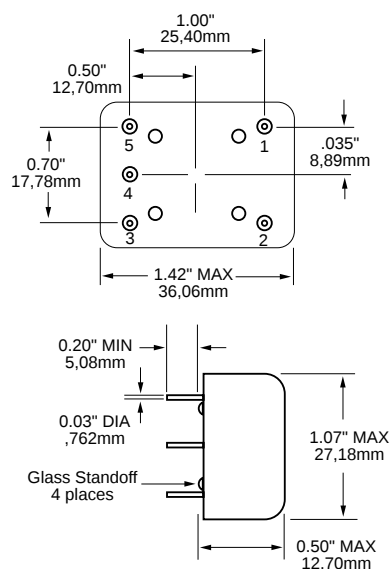


OC200

High Performance OCXO
in CO-08 Style Package

FEATURES

- Very Low Power Consumption
- Industry Standard Package
- Very High Frequency Stability
- Low Supply Voltage
- SC Cut Crystal
- Fast Warm-up
- Very Low Aging
- Ideal for: Battery/Portable Use
Satellite Modems
GPS Receivers



All dimensions are typical unless
otherwise specified.

Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Input Break Down Voltage	V _{cc}		-0.5		15.0	V	
Storage Temp.	T _s		-40		+85	°C	
Control Voltage	V _c		-1		9	V	
Frequency Range	F out			10.000		MHz	1
Frequency Stability	$\Delta F / F$ out	Vs. Operating Temp. Range		± 0.02	0.10	ppm	2, 7
		vs. Supply		± 5		ppb/V	5
		vs. Load		± 2		ppb/pF	6
Aging		per day per year 5 years		1E-9	1E-7 5E-7		after 30 days
SSB Phase Noise		1 Hz 10 Hz 100 Hz 1 KHz 10 KHz		-90 -120 -140 -150 -160		dBc/ Hz	5
Input Voltage	V _{cc}		11.4		12.6	V	3
Input Current	I _{cc}	@25°C V _{cc} = 12.0V		30	40	mA	5
Output Type & Load	Sinewave into 50 Ohm $\pm 5\%$						
Output Level		@25°C	+5.5	+7	+8.5	dBm	6
Harmonic Distortion		@25°C, 50 Ohm load			-30	dBc	
Warm-up Time	T	within ± 0.1 ppm of 30 min. value		25		s	5
Control Voltage	V _c		0.5		8	V	
Pull Range		from nominal F out	± 1.0			ppm	
Deviation / Slope		Monotonic/ positive	+0.3			ppm/V	
Setability (V _c for center freq)	V _{c0}	F _{nom} . (specified frequency)	3.25	4.25	5.25	V	
Operating Temperature Range	-30°C to +70°C						
Mechanical Shock	Per MIL-STD-202, 30G, 11ms						
Vibration	Per MIL-STD-202, 5G, 10 to 2000 Hz						
Soldering Conditions	Lead Temperature 260°C, for 10s, Max.						
Pin Out	Pin #5-V _{cc} Pin #4-V _{ref} Pin #3-V _c Pin #1-Fout Pin #2-Ground, Case						

Notes:

1. Other frequency options available, consult factory.
2. Offset frequency @ +25°C $\pm 3^\circ\text{C}$ to optimize F vs. T performance marked on case.
3. All supply voltages with $\pm 5\%$ tolerance.
4. Surface mountable option available.
5. Standard load, @ 25°C.
6. Tighter tolerances are available.
7. Specification is subject to change without notice.

All specifications are subject to change without notice.