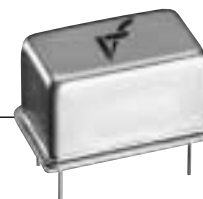
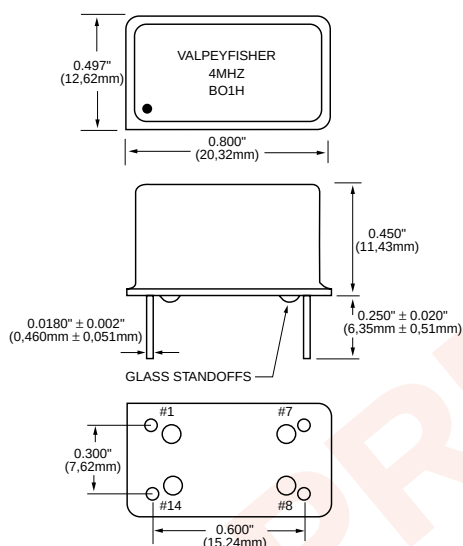


OC110

Low Power Miniature OCXO
in 14 Pin DIP Package

FEATURES

- Very Low Power Consumption
- Moderate Warm-Up Time
- Smallest Size
- SC-cut Crystal
- Excellent Frequency Stability
- Vacuum Sealed Enclosure



All dimensions are typical unless otherwise specified.

	Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Absolute Max. Ratings	Input Break Down Voltage	V _{cc}		-0.5		7	V	
	Storage Temp.	T _s		-55		85	°C	
	Control Voltage	V _c		-1		9	V	
Electrical	Frequency Range	F		5		26	MHz	1
	Frequency Stability	ΔF/F	vs. Operating Temperature	±30	±50	±100	ppb	2
			vs. Supply		50		ppb/V	
	Aging		per day per year 10 years		1E-9	1E-7 5E-7		after 30 days
	SSB Phase Noise		100Hz 1KHz 10KHz		-125 -145 -155		dBc/Hz	
	Input Voltage	V _{cc}		4.75	5.0	5.25	V	3
	Input Current	I _{cc}	steady state, 25°C steady state, -40°C start-up current		30 90 150	45 200	mA	
	Load	R _{load}	AC coupled	47.5	50	52.5	Ohm	
	Warm-up Time	T	0.2 ppm accuracy of 30 min. value @25°C		5		min	
	Output Level		CMOS					
	Harmonics		@ 25°C		-25		dBc	
	Control Voltage	V _c		0		5	V	
Environmental and Mechanical	Input Impedance		Pin #1, V _c	20			K Ohm	
	Pull Range		from nominal F	±1			ppm	
	Deviation / slope		Monotonic / positive		0.4		ppm/V	
	Frequency Adjust Method		By means of low impedance, temperature stable voltage source, or 220K Ohm potentiometer tied between Pin #1 and Pin #7					
	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.					
	Hermetic Seal		Leak rate < 1E-8 atm.cc/s of helium					
	Pin Out		Pin #1-V _c Pin #7-Case, Ground Pin #8-Output (F) Pin #14-V _{cc}					

Notes:

1. Other frequencies available, consult factory.
2. Consult factory for other stability options.
3. Up to 12V supply voltage options available.
4. HCMOS compatible output available.

All specifications are subject to change without notice.