



Crystal Oscillators > 30 to 130 MHz > VHF Ultra Low Noise OCXO

Features:

- Lowest Phase Noise Available at Frequencies from 30 to 130 MHz
- Internal Voltage Regulator and Oven
- Various Mounting Styles Available

Applications:

- Radar Systems
- High Energy Physics
- Radio Astronomy
- Test Equipment
- Synthesizers



The Wenzel VHF Ultra Low Noise Oscillator has been an industry standard for the best noise available. Using precise SC-cut crystals provides excellent warm-up and temperature stability as well as phase noise to -176 dBc/Hz guaranteed. Measurements at NIST, Boulder, have shown performance better than -180 dBc on some units. The ULN oscillators provide fast warm-up with excellent ovenized temperature performance.

Typical Specifications:						
Frequency (Specify)		30 to 130 MHz				
Frequency		50	100		MHz	
Output Level		+13			dBm	
Aging		$\pm 1 \times 10^{-5}$ / year				
Phase Noise	100 Hz	-130	-136	-125	-130	dBc/Hz
	1 kHz	-160	-164	-150	-158	dBc/Hz
	10 kHz	-174	-176	-174	-176	dBc/Hz
	20 kHz	-174	-176	-174	-176	dBc/Hz
	Temperature Stability (Specify)		$\pm 5 \times 10^{-7}$ to $\pm 2 \times 10^{-7}$			
Range	Range A	0 to +50C				
	Range B	0 to +65C				
	Range C	0 to +70C				
	Range D	-20 to +70C				
	Range E	-40 to +70C				
	Range F	-55 to +85C				
Electrical Tuning Range (Specify)	Tuning A	0 to +10 VDC				
	Tuning B	± 5 VDC				
Supply Voltage (Specify)		+12 or +15				VDC
Warm-up Power		5 for 5 minutes				Watts
Total Power typical		2.5 at 25°C				Watts
Crystal Type		SC				
Dimensions		44.4 x 74.7 x 25.4				mm
		1.75 x 2.94 x 1				inches
Connectors		SMA on side and solder pins on base				

