



Crystal Oscillators > Phase Locked & Auto Switching > 5 and 100 MHz-SC Sorcerer Phase Locked Source

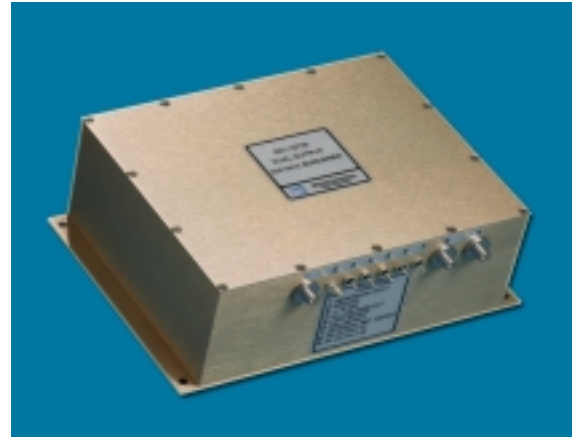
Features:

- Ultra Low Phase Noise
- VHF Phase Noise Clean-Up
- Exceptional Sub-Harmonics and Spurious Content
- System can be reconfigured for other Specific Frequencies.

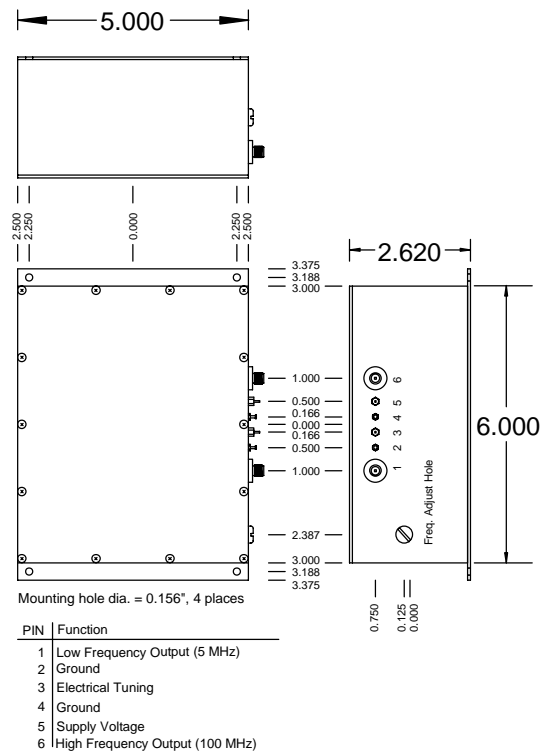
Applications:

- Noise Reference
- Frequency Reference
- System Integration

The 5 MHz and 100 MHz Sorcerer is comprised of two Ultra Low Noise Crystal Oscillators (5 MHz & 100 MHz). The two OCXOs are phase locked together for added stability and phase noise clean-up on the 100 MHz output. This system makes an excellent phase noise reference for HF and VHF phase noise measurements.



Typical Specifications:			
Frequency	5 MHz & 100 MHz		
Output Frequency	5 MHz	100 MHz	
Output Level (dBm)	+12 +/- 2 dB	+12 +/- 2 dB	
Aging Per day after 30 days operating, typical	±5e-10	±5e-10	
Phase Noise dBc/Hz			
Locked			
10 Hz	-150	-120	
100 Hz	-170	-135	
1 kHz	-175	-155	
10 kHz	-176	-174	
100 kHz	-176	-174	
Loop Bandwidth, Typ.	300 Hz		
Temperature Stability			
0 to +50°C	±2e-8		
Harmonics	<-25		dBc
Sub-Harmonics	<-50		dBc
Spurious	<-80		dBc
Supply Voltage	+15 +/- .5		VDC
Warm-up Power	<15		Watts
Total Power @ 25 °C	<9		Watts
Mechanical Tuning	±2e-7		
Electrical Tuning	±1.5e-6, 0 to +10 VDC		
Crystal Type	SC		
Dimensions	5 x 6 x 2.62		inches
Connectors	SMAs, female feedthru capacitors		



Note: This system can easily be configured for other Specific Output Frequencies.

Please Consult Factory