



Crystal Oscillators > 30 to 130 MHz > Sprinter | OXCO

**Features:**

- High Performance / Cost Ratio
- Low Phase Noise
- Small PCB Mount Package
- Lightweight
- Internal Voltage Regulator
- VCXO Voltage Tunable

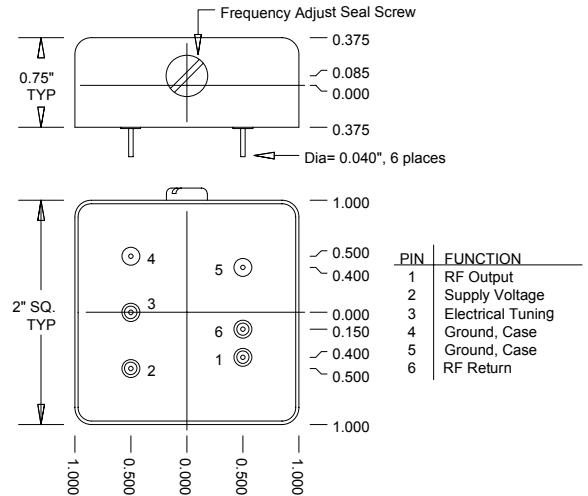
**Applications:**

- Test Equipment
- Synthesizers
- Base Stations
- Portable Transceivers

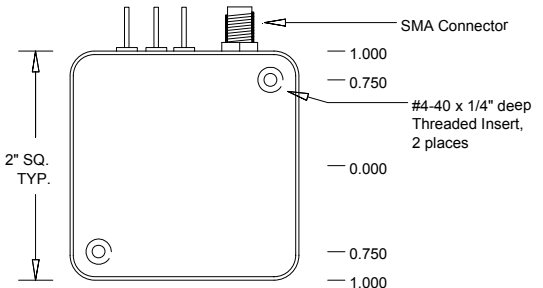
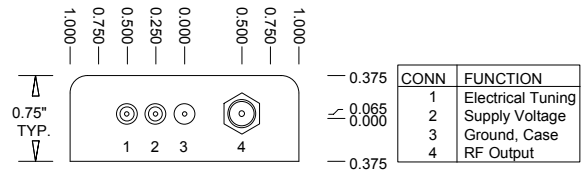


The Sprinter is a miniature VHF oscillator using crystals from 20 to 130 MHz. Available with both SMA and solder pins, standard options include dual outputs for easy phase locking. Frequently used in "clean-up" circuits, these oscillators can be specified with phase noise floors to -170 dBc. The Sprinter Plus Series is available with built-in multipliers and can be specified to 500 MHz. Phase noise is increased by typically  $20 \log(N) + 2$  dB, where N is the multiplication factor.

Typical Specifications:						
Frequency (Specify)	30 to 130 MHz					
Frequency	50	100	MHz			
Output Level	+13 dBm					
Aging	$1 \times 10^{-6}$ to $3 \times 10^{-7}$ / year					
Phase Noise	100 Hz	-130	-135	-120	-130	dBc/Hz
	1 kHz	-150	-155	-150	-155	dBc/Hz
	10 kHz	-165	-165	-165	-165	dBc/Hz
	20 kHz	-165	-167	-165	-170	dBc/Hz
Temperature Stability (Specify)	$1 \times 10^{-6}$ to $1 \times 10^{-7}$					
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)	$\pm 2 \times 10^{-7}$ to $\pm 4 \times 10^{-6}$					
Tuning A	0 to +10 VDC					
Tuning B	$\pm 5$ VDC					
Supply Voltage (Specify)	+12 or +15 VDC					
Warm-up Power	<5 for 5 minutes					
Total Power typical	<2.7 at 25°C					
Crystal Type	SC					
Dimensions	50.8 x 50.8 x 19.05 mm					
	2.0 x 2.0 x 0.75 inches					
Connectors	SMA and feedthru capacitor					



Connector numbers are for reference only, they are not marked on unit.



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