

MicroYIG Oscillator

3 – 10 GHz Center Frequency YIG Tuned Oscillator

Features

- Low Phase Noise: -105 dBc/Hz @ 10K (typ.)
 -128 dBc/Hz @ 100K (typ.)
- · Low Cost YIG Oscillator
- Up to ±450 MHz Tuning Range
- Low Power (0 5 dBm) and Buffered (8 – 14 dBm) Options Available
- Outstanding Phase Hit Performance in 64 and 128 QAM Radio Systems
- SMA Connectorized Package and Board Mount Package Options
- Utilizes Metal Injection Molding (MIM) Packaging Technology





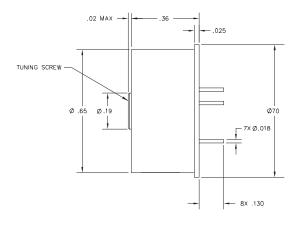
Specifications*

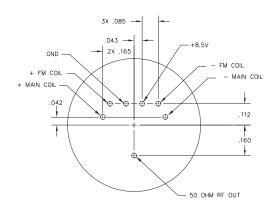
Characteristics	Typical ¹	Guaranteed ¹ -40°C to +85° C
Center Frequency (Zero Tune Current)	3 GHz to 10 GHz	
Phase Noise 1K offset	-82	-75
10K offset	-105	-100
100K offset	-128	-123
Power Output non-buffered	5 dBm	0 – 5 dBm
Power Output buffered	10 dBm	8 – 14 dBm
Frequency Drift Over Temperature	±30 MHz	±60 MHz
DC Circuit Current at +8.5 ±.25 Volts non-buffered	20 mA	30 mA
DC Circuit Current at +8.5 ±.25 Volts buffered	70 mA	90 mA
Harmonic Performance		
Second Harmonic	–12 dBc min.	
Third Harmonic	–12 dBc min.	
Spurious Output	–60 dBc min.	
Tuning Characteristics		
Main Coil ²		
Sensitivity	typically 5 MHz/mA ±10%	
Coil Impedance (various)	typically 26 Ohms	
Modulation Bandwidth	>35 kHz	
FM Coil ²		
Sensitivity	150 kHz/mA ±20%	
Modulation Bandwidth	>400 kHz	
Deviation	±50 MHz	
Coil Impedance	1 ohm, 2 microH	

- 1. Typical and Guaranteed specifications measured in a 50 ohm system at the nominal power
- 2. Other Main Coil and FM Coil Sensitivities available.

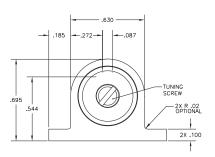
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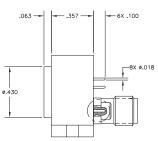
TO-8 Package

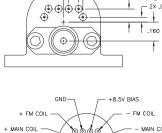




SMA Connectorize Package







2x .128

