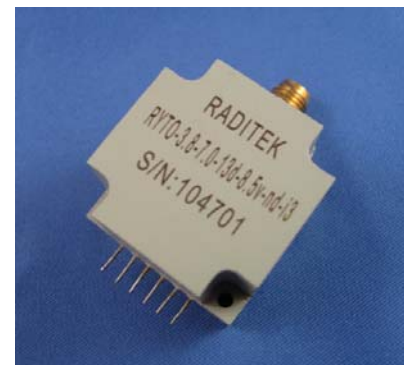
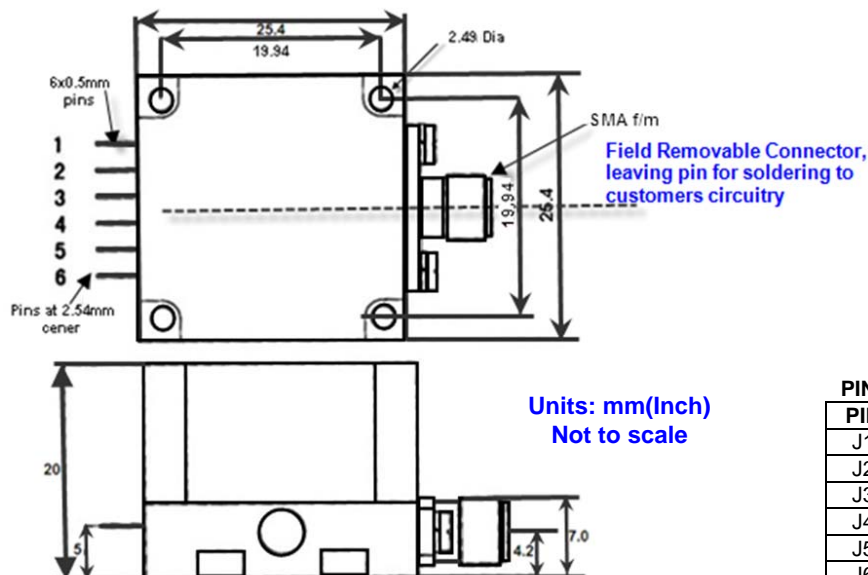


Mini-YIG Tuned Oscillator

3.8-7.0GHz ~ 3.95-9.0~7.86-9.50GHz

*** Equivalent to previous Endwave/ Microsemi Mini YIG Oscillator Model # MYOS 05500**



PIN Definitions

PIN	Definition
J1	8.5V
J2	GND
J3	Tune +
J4	Tune -
J5	FM +
J6	FM -

Order Examples: RmYTO-3.8-7.0-13d-8.5V-nd-i3

Specifications			Units
Frequency Range	3.8~7.0	3.95~9.0	GHz
Park Frequency	5.3~5.7		GHz
Power Output, Min	+13	+13	dBm
Power Output Variation, Max	±2	±2	dB
Spurious Output, Min	-70	-70	dB
Tuning Linearity, Max	±0.1	±0.1	%
Phase Noise, @ 1KHz offset	-70 (target)	-70 (target)	dBc/Hz
Phase Noise, @ 10KHz offset	-105 typ	-103 (3.95-8G) -98 (8-9G)	dBc/Hz
Phase Noise, @ 100KHz offset	-128 typ -125	-123 (3.95-8G) typ -115 (8-9G) typ	dBc/Hz
Temperature Drift	±30 typ, ±60 Max	±30 typ, ±60 Max	MHz,
2nd,3rd Harmonic, Max	-12	-12	dBc
Main Coil Tuning Sensitivity	10	15	MHz/mA
Main Coil Resistance	23	23	Ohms
Main coil Inductance	30	30	mH (typical)
FM Coil Tuning Sensitivity	150	150	KHz/mA
FM Coil Resistance	1	1	Ohms
Tuning coil Inductance	2	2	μH
DC current @ 8.5V	100 typ,120 max	100 typ,120 max	mA @ -40 to +85°C
Working Temperature	-40~+85	-40~+85	°C

RmYTO-3.8-9.5-12d or 13d-8.5V-nd-Generic-i3

Specifications may be subject to change

02/09/11

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Tel: (408) 266-7404

FAX: (408) 266-4483

WEB: www.raditek.com

E-mail: sales@raditek.com

Mini-YIG Tuned Oscillator

3.8-7.0GHz ~ 3.95-9.0~7.86-9.50GHz

*** Equivalent to previous Endwave/ Microsemi Mini YIG Oscillator Model # MYOS 05500**

Specifications		Units
Frequency Range	7.86~9.50	GHz
Park Frequency	8.18~8.88	GHz
Power Output, Min	+12	dBm min
Power Variation over Temp.	±3	dB
Harmonics	-12	dBc
Non-Harmonics	-60	dBc
Tuning Linearity	±0.1	% max
Temperature Drift	±40 Typical	MHz max
Tuning hysteresis	8	MHz pp max
Frequency Pushing	1	MHz/V
Frequency Pulling	1	MHz/V
Phase Noise, typ	-95 @10KHz	dBc/Hz
	-120 @100KHz	dBc/Hz
DC Power	+8.5V/ 100mA	V / mA
Main Coil Resistance	23	Ohms typ.
Main Coil Inductance	41	mH
Main Coil Tuning Sensitivity	9 typical	MHz/mA nom.
FM Coil Resistance	2	Ohms
FM Coil Inductance	10	uH max
FM Coil bandwidth	400	KHz/mA nom.
Operating Temperature Range	-0~+70	°C
Dimension	25.4x25.4x20	mm

- Our customers requested this product to replace discontinued models from other companies. We responded by adding the first two frequency bands, 3.8-7GHz and 3.95 to 9GHz to our YIG family of oscillators and filters,
- They are in a small package, only 1 x 1 x0.78 inch (25.4 x 25.4 x 20mm high).
- Minimum output power is 13dBm and have no spurious higher than -70dBc. The units run off 8.5V at 120mA max (100mA typ.).
- They have a ±0.1% tuning linearity and 1 Ohm FM coil (150 KHz/mA sensitivity), with 23 Ohm main coil resistance.
- They operate over the full -30 to 85 degree C temperature range. Phase noise is around -103 to -105dBc/Hz at 10 KHz offset.
- It is recommended that we supply the driver, either an Analog or 12 bit micro controlled/temperature compensated drivers are available which will save a lot of customer's energy for issues such as: tuning linearity, temperature compensation, lower hysteresis effects etc.