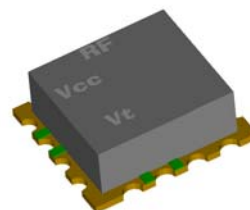
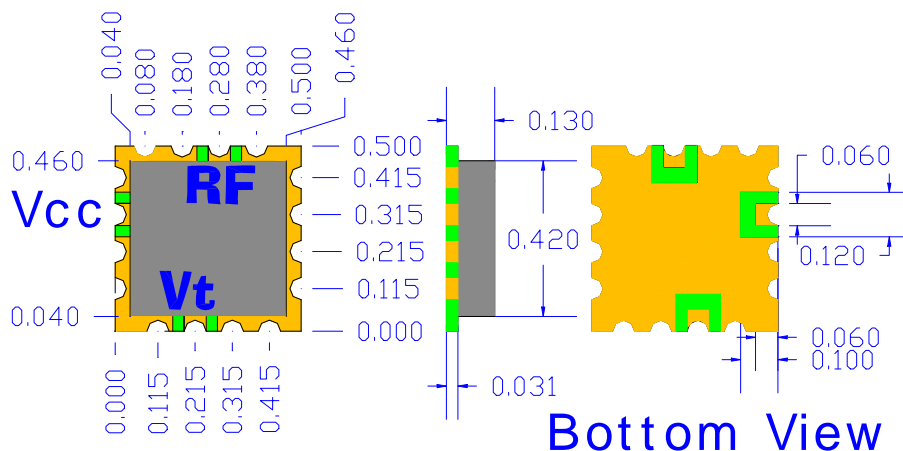


RADITEK VCO Series

MS= High frequency, Mini package, Surface mount, 100% tested

❖ Guaranteed free of non monotonic tuning



Notes: Tolerance is ± 0.01 inch
Substrate is FR4

Units: Inch

Surface mount package details:

Shield is tin plated Brass

All half holes are plated through for ground continuity to PCB

Base is metalized at ground potential.

Order as: **RVCO-F1-F2-MS-0d-5v**

F1-F2=frequency range in MHz

0d=0dBm output power

5V-5Volts supply required.

Some typical examples:

Frequency	622	822.15	1150	2200-2400	MHz
Tuning Voltage	0.5-4.5	0.5-4.5	0.5-4.5	0.5-10	Volts (typ)
Tuning Sensitivity	9	9	35	20-40	MHz/V
Output power	4.5+/-2.5	4.5+/-2.5	4.5+/-2.5	>3	dBm (min)
Load impedance	50	50	50	50	Ohms
Pulling (into 1.7 dB)	<8	<8	<6	<30	MHz
Spurious (non harmonic)	-80	-80	-90	-90	dBc
Phase noise at 1 KHz	-79	-79	-80		dBc/Hz typ.
Phase noise at 10 KHz	-98	-98	-102	-95	
Phase noise at 100 KHz	-119	-119	-122	-115	
Harmonic level	-14	-14	-12	-14	dBc
Pushing	<2	<2	<2	<20	MHz/V
Operating temperature	-40 to 85	-40 to 85	-40 to 85	-40 to 85	°C
Supply voltage	5	5	5	8	V dc
Supply current	30 max.	30 max.	30 max.	50 max.	mA
Package	MS	MS	MS	MS	

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Frequency	870-950	1470-1540	1880-1960	MHz
Tuning Voltage	0.25-4.5	0.25-4.5	0.25-4.5	Volts (typ)
Tuning Sensitivity	22-38	20-32	22-38	MHz/V
Output power	0 to 6	0 to 6	-3 to +3	dBm (min)
Load impedance	50	50	50	Ohms
Pulling (into 12 dB ret. loss)	5 max.	5 max.	5 max.	MHz
Spurious (non harmonic)	-90	-90	-90	dBc
Phase noise at 1 KHz				dBc/Hz typ.
Phase noise at 10 KHz	-106	-100	-100	
Phase noise at 100 KHz	-126	-120	-120	
Harmonic level	-10	-10	-10	dBc
Pushing	2 max	2 max	2 max	MHz/V
Operating temperature	-35 to +85	-35 to +85	-35 to +85	°C
Supply voltage	4.75-5.25	4.75-5.25	4.75-5.25	V dc
Supply current	≤20	≤20	≤20	mA

Frequency	1200	1745-1765	2100	MHz
Tuning Voltage	5.0	1 to 3.5	5.0	Volts (typ)
Tuning Sensitivity	49-51		49-51	MHz/V
Output power	0 to 6	>5	0 to 6	dBm (min)
Output Power Variation	+/-3		+/-3	dBm
Load impedance	50	50	50	Ohms
Pulling (into 12 dB ret. loss)	5 max	6 typ.	5 max	MHz
Spurious (non harmonic)	-90		-90	dBc
Phase noise at 1 KHz				dBc/Hz typ.
Phase noise at 10 KHz	-110	-97	-110	
Phase noise at 100 KHz	-120		-120	
Harmonic level	-10	No spec	-10	dBc
Pushing	2 max	4 typ.	2 max	MHz/V
Operating temperature	-35 to +85	-40 to +85	-35 to +85	°C
Supply voltage	4.75-5.25	5	4.75-5.25	V dc
Supply current	≤20	To be advised	≤20	mA