

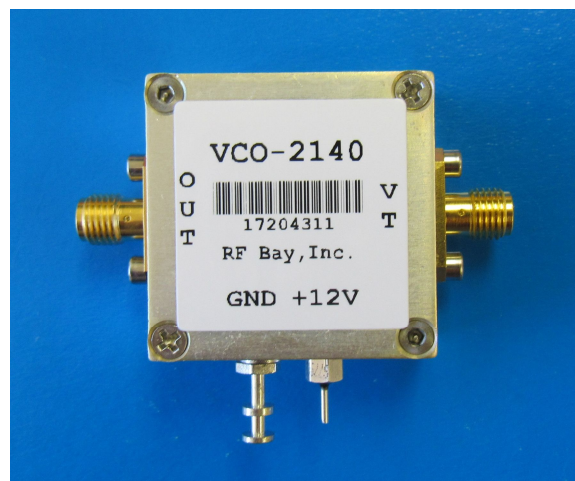
VCO Series

2110-2170MHz VOLTAGE CONTROLLED OSCILLATOR

Features

- Frequency: 2110-2170MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: 0dBm
- Phase Noise: -105dBc/Hz @ 10KHz offset
- Power Supply: +12V/19mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

VCO-2140 is a voltage controlled oscillator module with output frequency range of 2110 to 2170MHz.

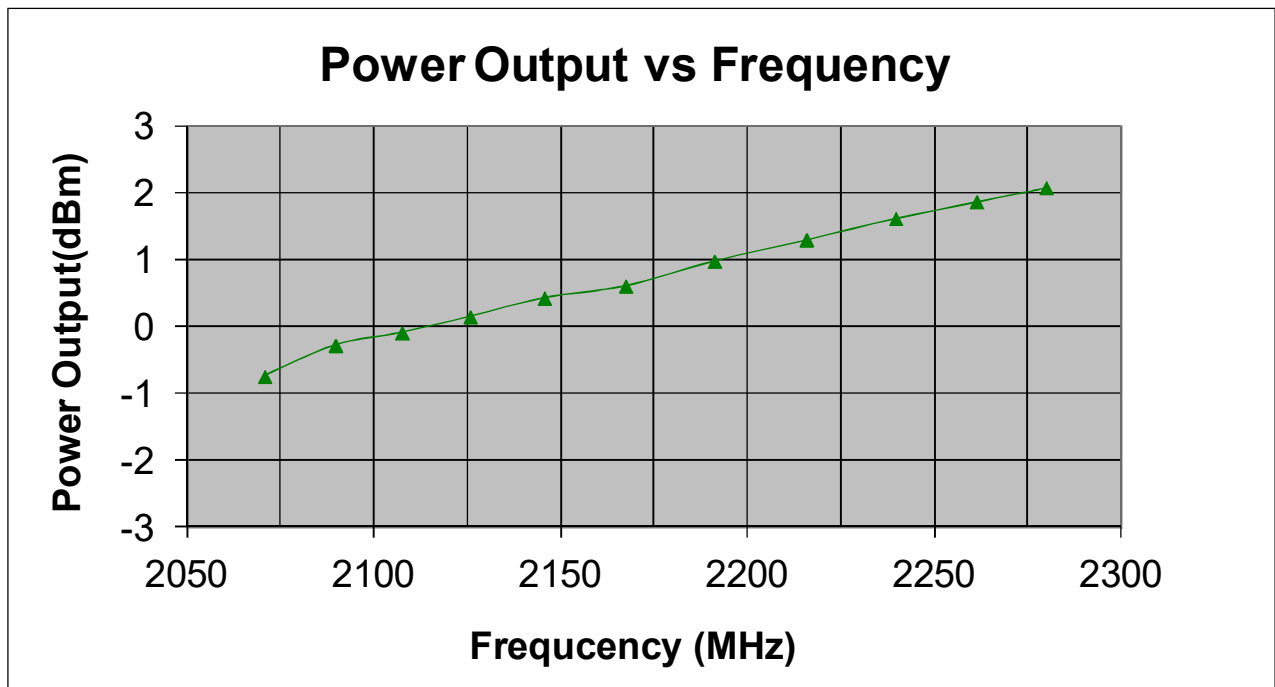
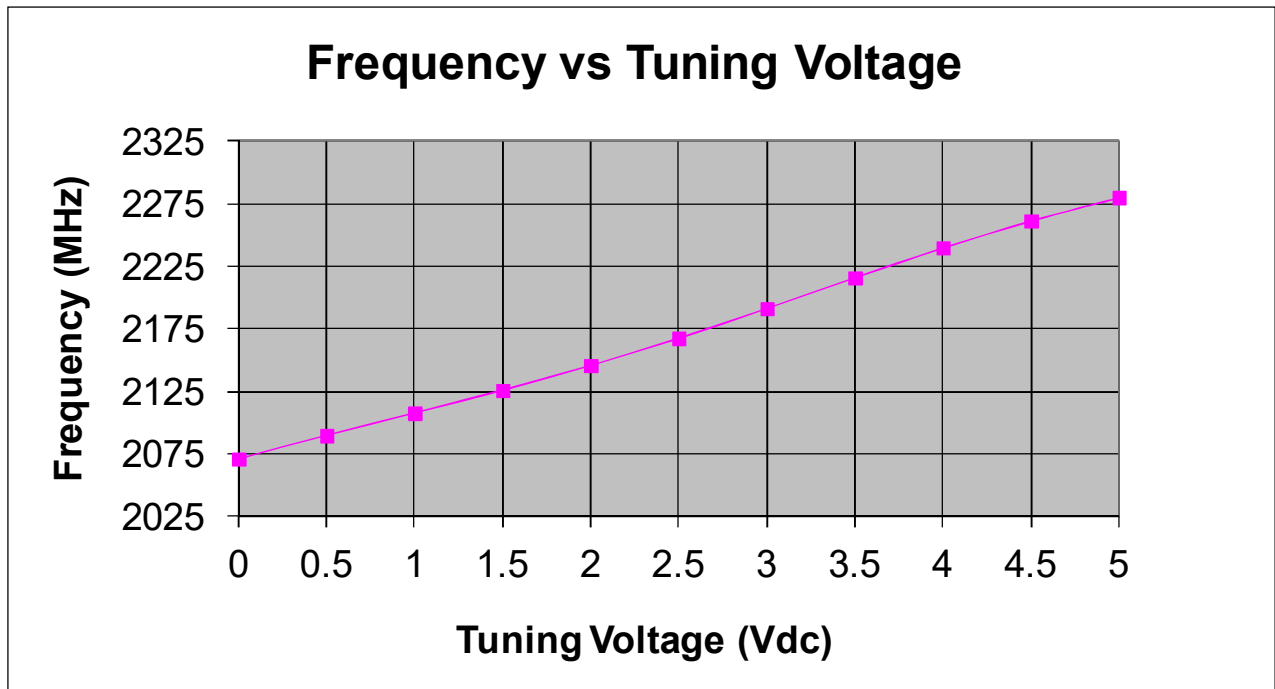
Electrical Specifications @ +25 °C, $Z_{out} = 50 \Omega$, DC Voltage = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2110		2170
Tuning Voltage	Vdc	0.5		4.5
Phase Noise @ 10KHz offset (1 Hz BW, typ)	dBc/Hz		-105	-100
Tuning Sensitivity	MHz/V		38	
Power Output	dBm	-3	0	+3
Harmonic Suppression (2 nd)	dBc	-20	-30	
Output Impedance	Ω		50	
Input Capacitance	pF			50
Frequency Pulling	MHz		2.5	5
DC Supply Voltage	V	+9	+12	+15
DC Supply Current	mA		19	25
Operating Temp Range	°C	-40		+85

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Typical Performance @ +25 °C



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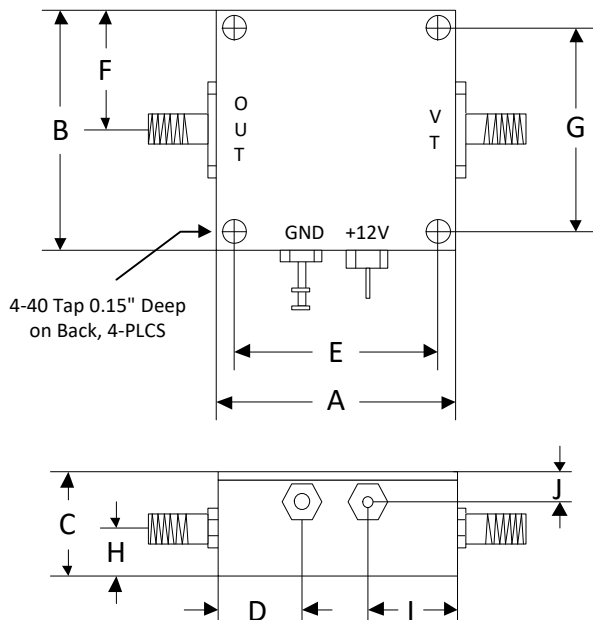
Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+25V
Control Voltage	+10V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

ESD Sensitive Material



Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76