

VCO Series

175-300MHz VOLTAGE CONTROLLED OSCILLATOR

Features

- Frequency: 175-300MHz
- Tuning Voltage: 1-10V
- Power Output: +10dBm
- Phase Noise: -105dBc/Hz @ 10KHz offset
- Power Supply: +12V/20mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

VCO-0235 is a voltage controlled oscillator module with output frequency range of 175 to 300MHz.

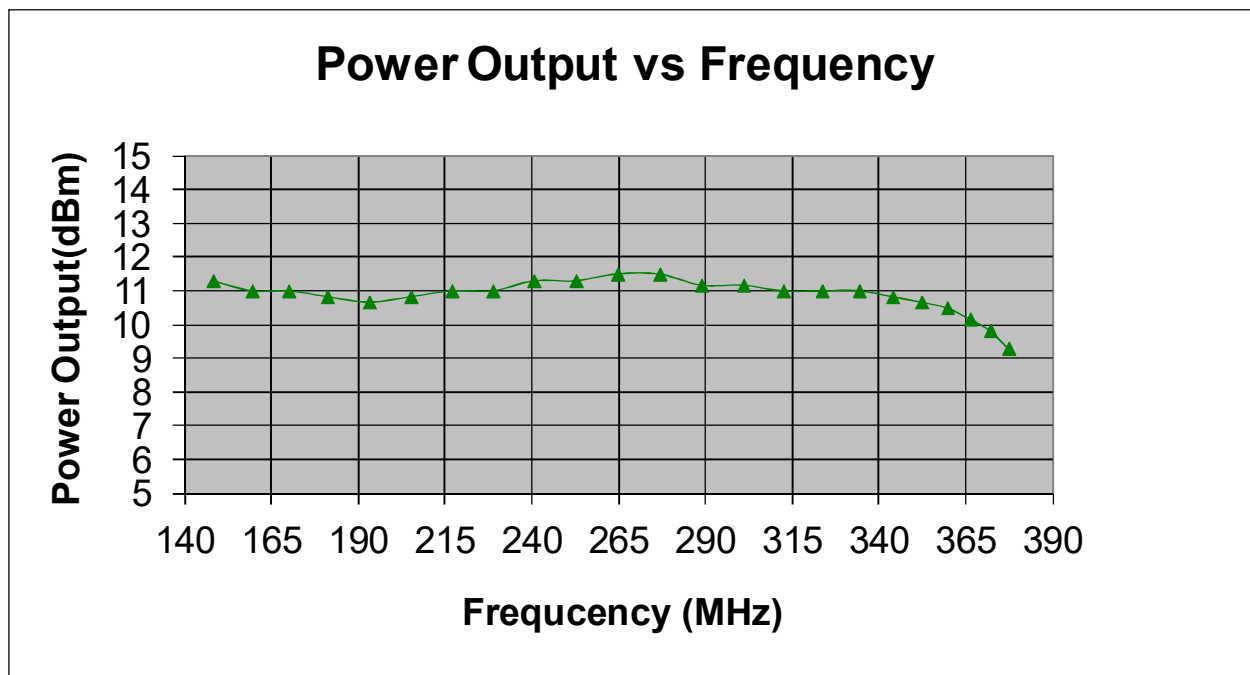
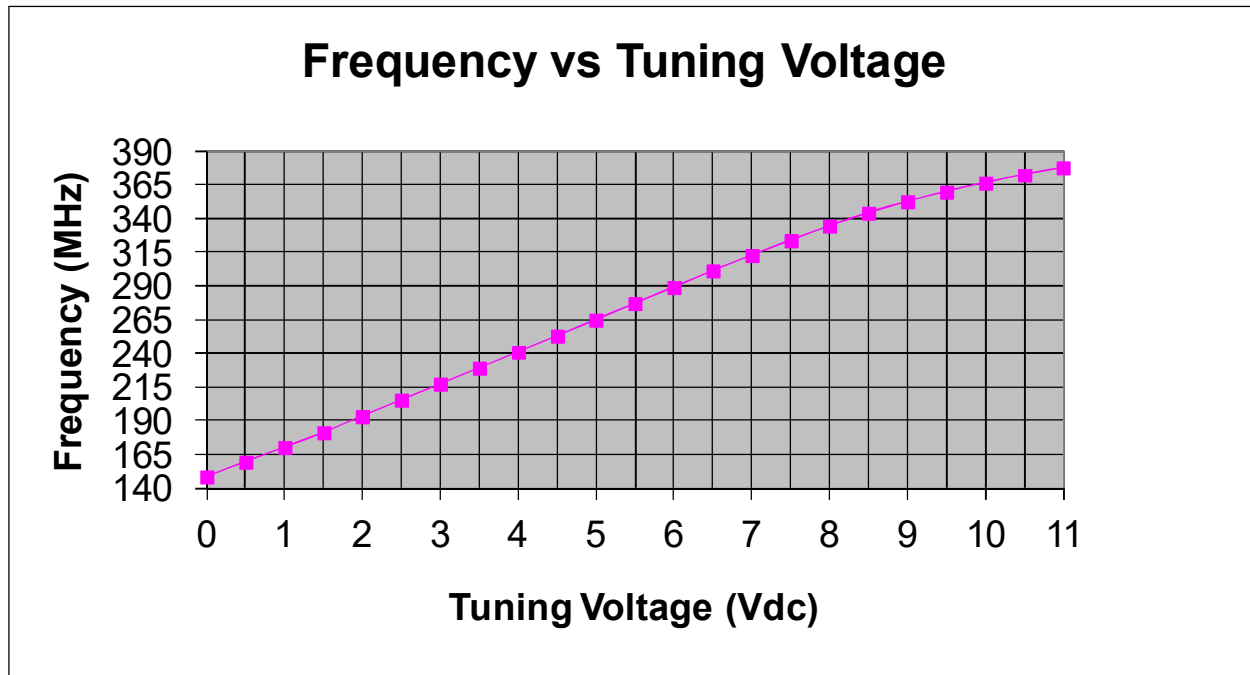
Electrical Specifications @ +25 °C, $Z_{out} = 50 \Omega$, $V_{supply} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	175		300
Tuning Voltage	Vdc	1		10
Phase Noise @ 10KHz offset (1 Hz BW, typ)	dBc/Hz		-105	
Tuning Sensitivity	MHz/V		24	
Power Output	dBm	+8	+10	+12
Harmonic Suppression (2 nd)	dBc		-10	
Load Impedance	Ω		50	
Input Capacitance	pF		50	
Frequency Pulling	MHz		-	
Supply Voltage	V	+9	+12	+15
Supply Current	mA		20	
Operating Temp Range	°C	-40		+85

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Typical Performance @ +25 °C



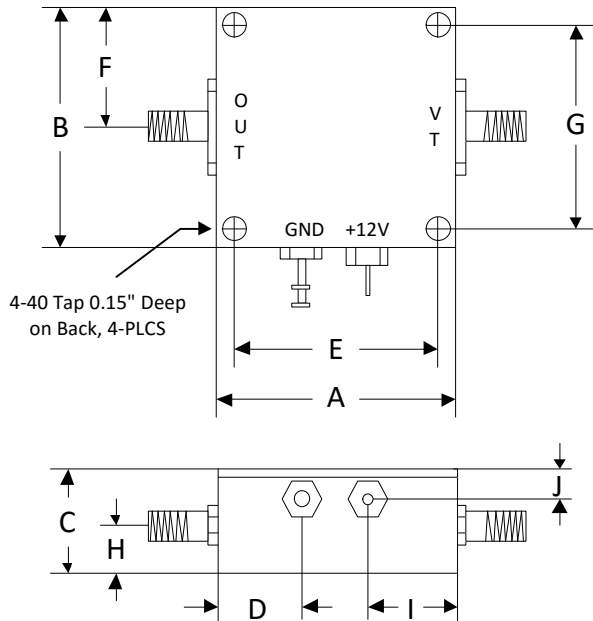
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Absolute Maximum Ratings

Parameter	Absolute Maximum
Power Supply Voltage	+25V
Control Voltage	+16V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °C

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