

VCO Series

1950-2150MHz VOLTAGE CONTROLLED OSCILLATOR

Features

- Frequency: 1950-2150MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: +5dBm
- Phase Noise: -96dBc/Hz @ 10KHz offset
- Power Supply: +7V to +15V
- Temperature: -40 °C to +75 °C
- SMA Connector

Picture



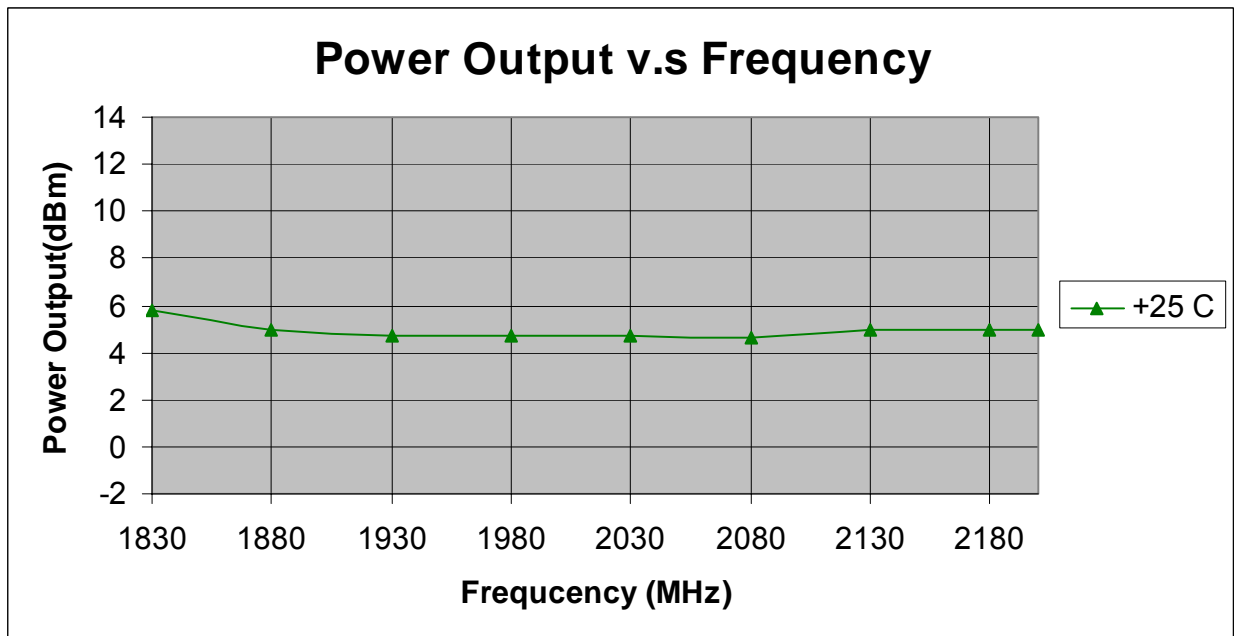
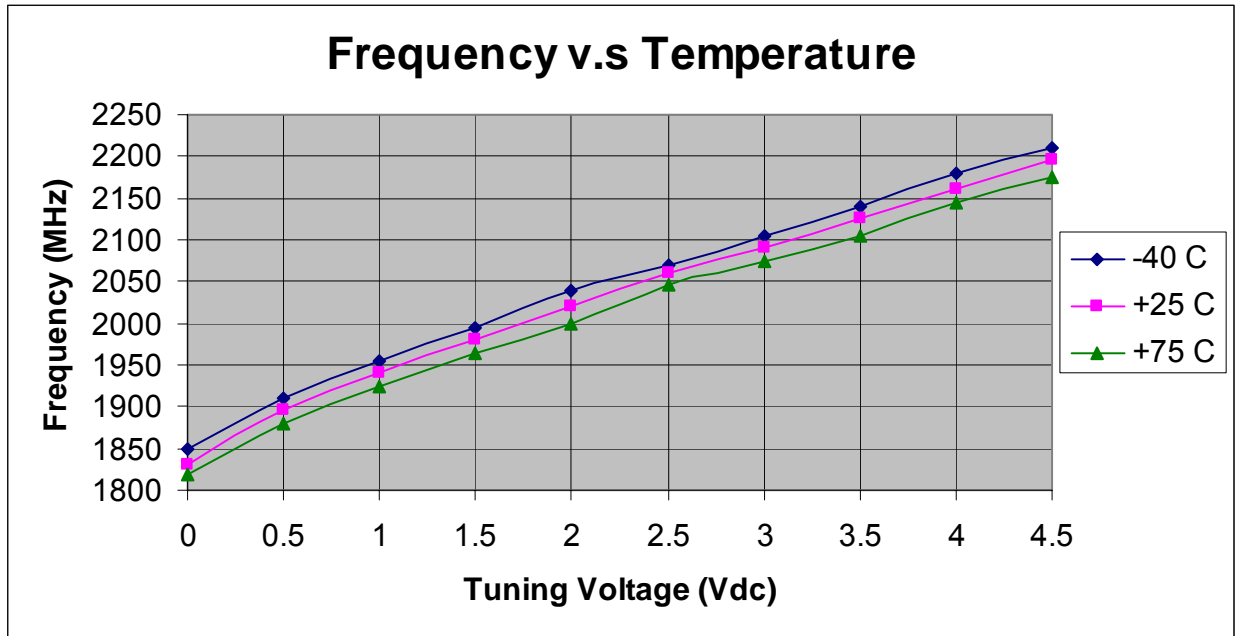
Description

VCO-2050 is a wide range voltage controlled oscillator with frequency range of 1950 to 2150MHz.

Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1950		2150
Tuning Voltage	Vdc	0.5		4.5
Phase Noise @ 10KHz offset (1 Hz BW, typ)	dBc/Hz		-96	
Tuning Sensitivity	MHz/V		72	
Power Output	dBm	+3	+5	+7
Harmonic Suppression (2 nd)	dBc		-15	
Load Impedance	Ω		50	
Input Capacitance	pF		50	
Frequency Pulling	MHz		<10	
Supply Voltage	V	+7	+12	+15
Supply Current	mA		20	
Operating Temp Range	°C	-40		+75

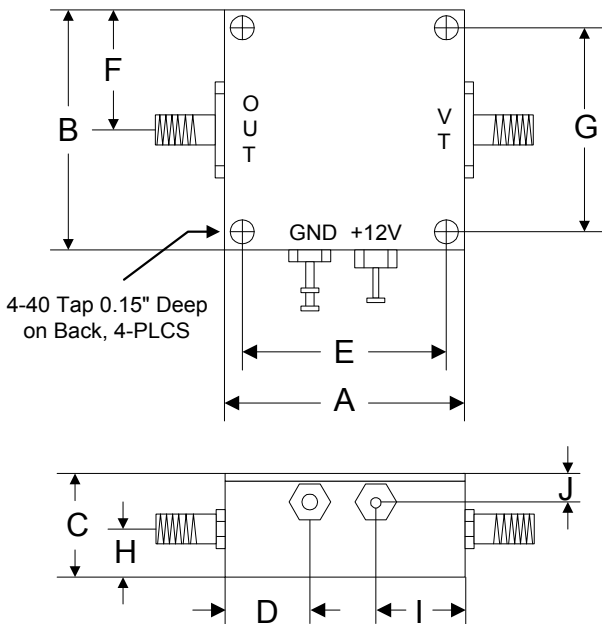
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
Power Supply Voltage	+16V
Operating Temperature	-40 °C to +75 °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