

## VCO Series

## 1685-1735MHz VOLTAGE CONTROLLED OSCILLATOR

### Features

- Frequency: 1685-1735MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: 0dBm
- Phase Noise: -105dBc/Hz @ 10KHz offset
- Power Supply: +12V/35mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

### Picture



### Description

VCO-1710 is a voltage controlled oscillator module with output frequency range of 1685 to 1735MHz.

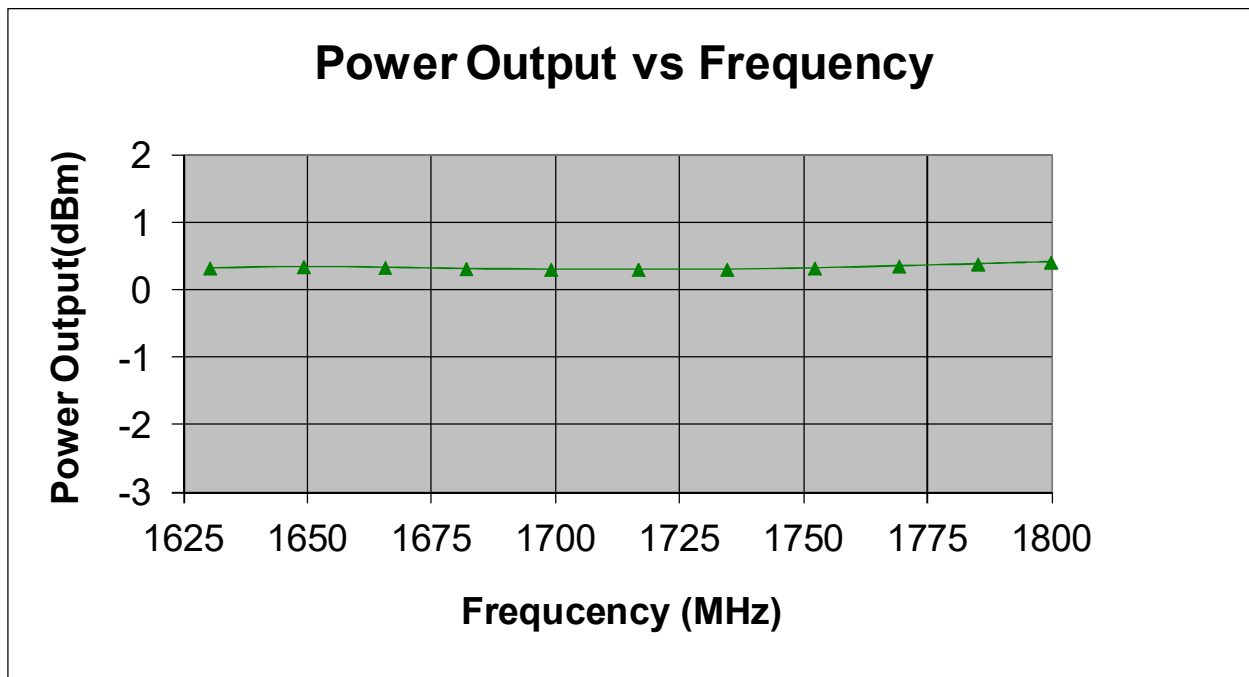
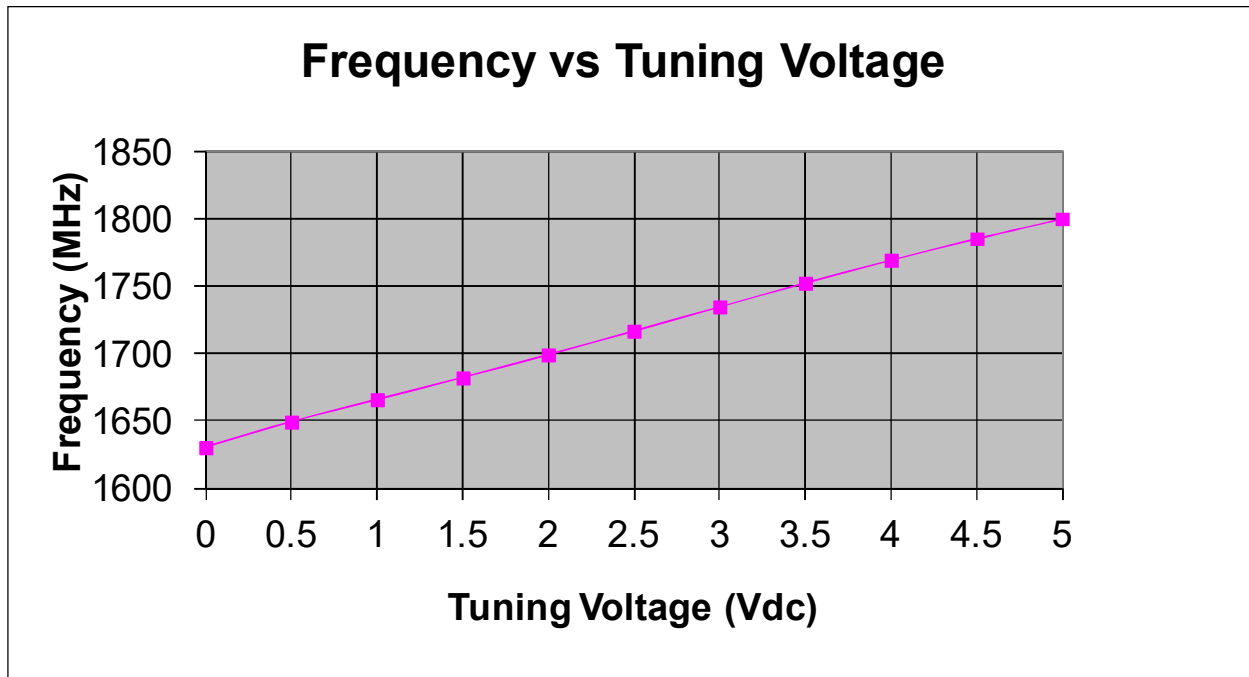
### Electrical Specifications @ +25 °C, $Z_{out} = 50 \Omega$ , $V_{supply} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1685		1735
Tuning Voltage	Vdc	0.5		4.5
Phase Noise @ 10KHz offset (1 Hz BW, typ)	dBc/Hz		-105	
Tuning Sensitivity	MHz/V		34	
Power Output	dBm	-3	0	+3
Harmonic Suppression (2 <sup>nd</sup> )	dBc		-15	
Load Impedance	$\Omega$		50	
Input Capacitance	pF			100
Frequency Pulling	MHz			1
Supply Voltage	V	+9	+12	+15
Supply Current	mA		35	
Operating Temp Range	°C	-40		+85

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OSCILLATOR**

Typical Performance @ +25 °C



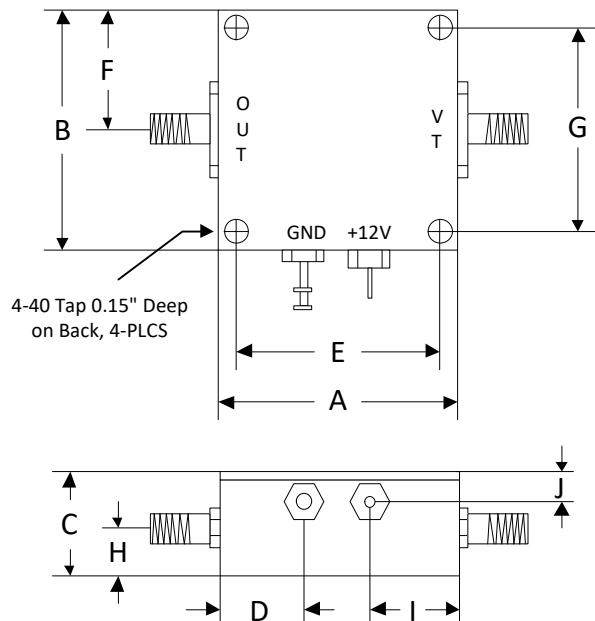
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
Power Supply Voltage	+25V
Control Voltage	+10V
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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76