

## 575-675MHz VOLTAGE CONTROLLED OSCILLATOR

### Features

- Frequency: 575-675MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: +1dBm
- Phase Noise: -110dBc/Hz @ 10KHz offset
- Power Supply: +6V to +15V DC
- Temperature: -40 °C to +85 °C
- SMA Connectors

### Picture



### Description

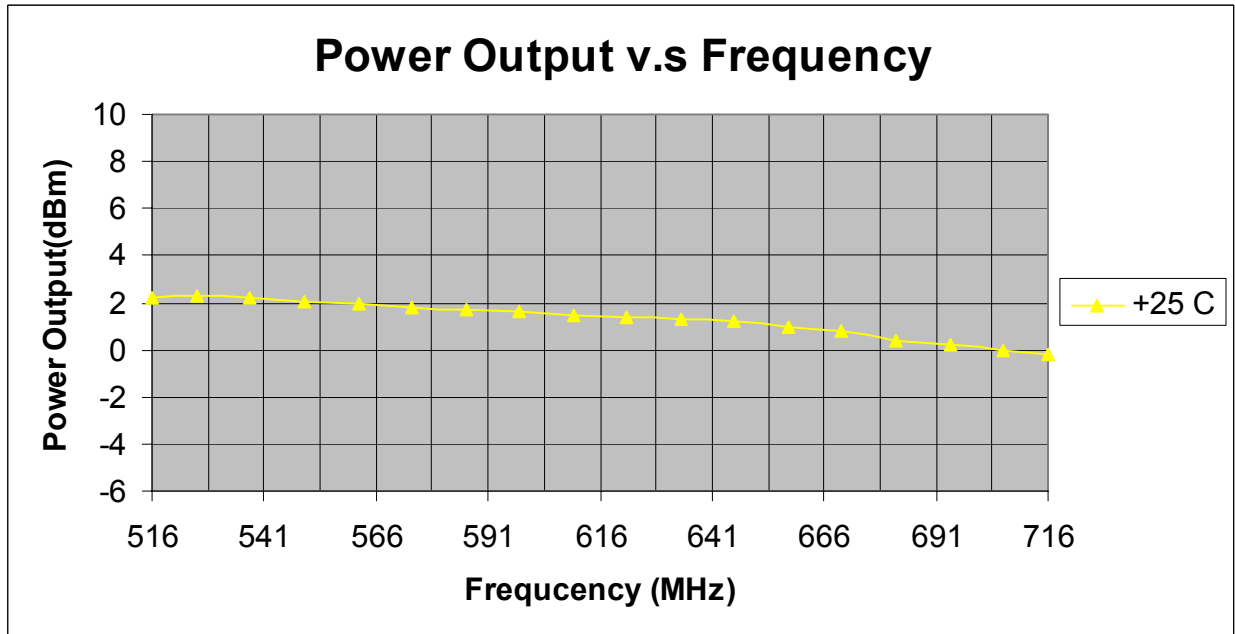
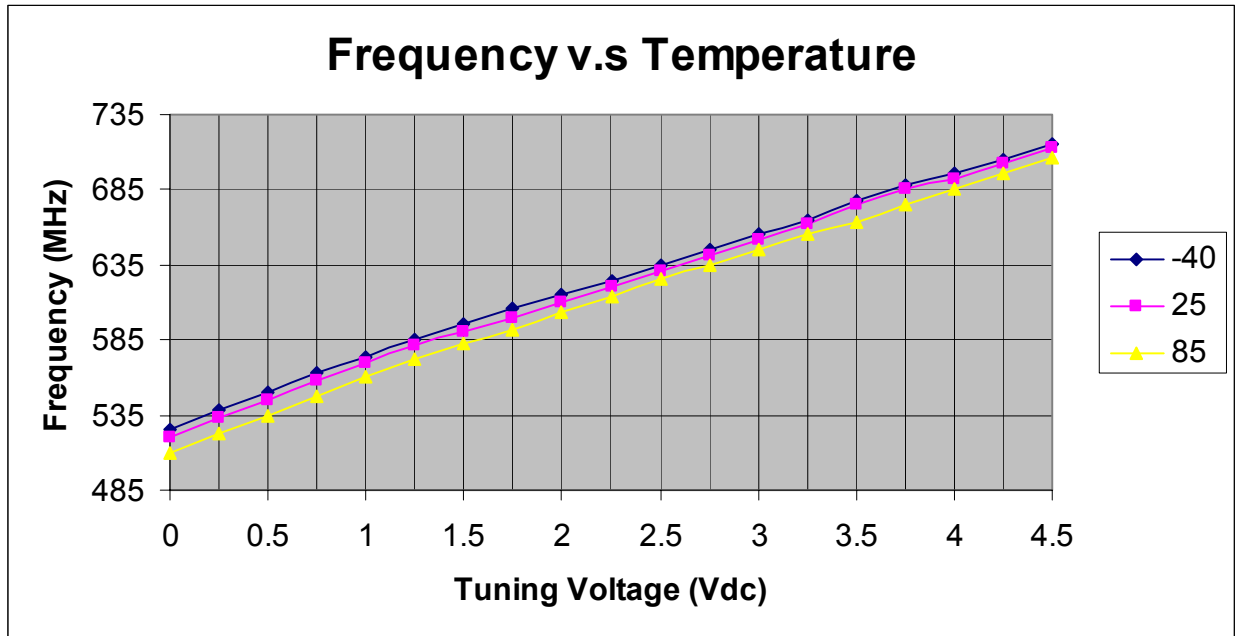
VCO-0625 is a low phase noise voltage controlled oscillator with frequency range of 575 to 675MHz.

### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	575		675
Tuning Voltage	Vdc	0.5		4.5
Phase Noise @ 10KHz offset (1 Hz BW. typ)	dBc/Hz		-110	
Tuning Sensitivity	MHz/V		43	
Power Output	dBm	-2	+1	+4
Harmonic Suppression (2 <sup>nd</sup> )	dBc		-8	
Load Impedance	Ω		50	
Input Capacitance	pF		150	
Frequency Pulling	MHz		< 5	
Supply Voltage	V	+6	+12	+15
Supply Current	mA		26	
Operating Temp Range	°C	-40		+85

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Typical Performance @ +25 °C



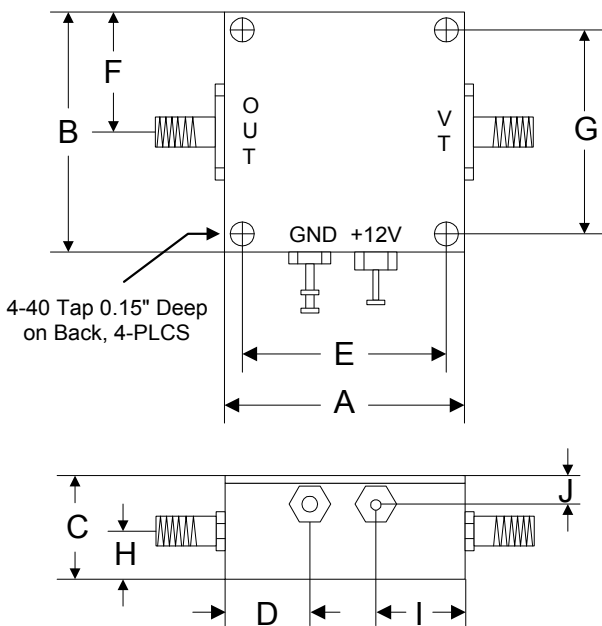


## 575-675MHz VOLTAGE CONTROLLED OSCILLATOR

### Absolute Maximum Ratings

Parameter	Absolute Maximum
Power Supply 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	0.500	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	12.70	12.70	4.76