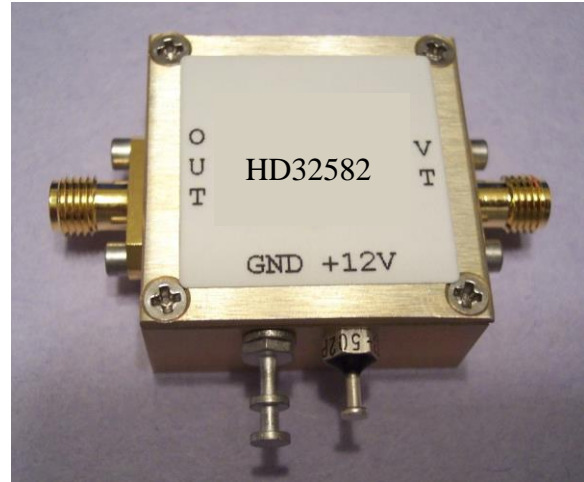


## 2165-2360MHz VOLTAGE CONTROLLED OSCILLATOR

### Features

- Frequency: 2165-2360MHz
- Tuning Voltage: 0.5-10V
- Power Output: +5dBm
- Phase Noise: -99dBc/Hz @ 10KHz offset
- Power Supply: +7V to +15V
- Temperature: -40 °C to +80 °C
- SMA Connector

### Picture



### Description

HD32582 is a wide range voltage controlled oscillator with frequency range of 2165 to 2360MHz.

### Electrical Specifications @ +25 °C

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2165		2360
Tuning Voltage	Vdc	0.5		10
Phase Noise @ 10KHz offset (1 Hz BW, typ)	dBc/Hz		-99	
Tuning Sensitivity	MHz/V		56	
Power Output	dBm	+2	+5	+8
Harmonic Suppression (2 <sup>nd</sup> )	dBc		-10	
Load Impedance	Ω		50	
Input Capacitance	pF		50	
Frequency Pulling	MHz		<10	
Supply Voltage	V	+7	+12	+15
Supply Current	mA		25	



**HD32582**

---

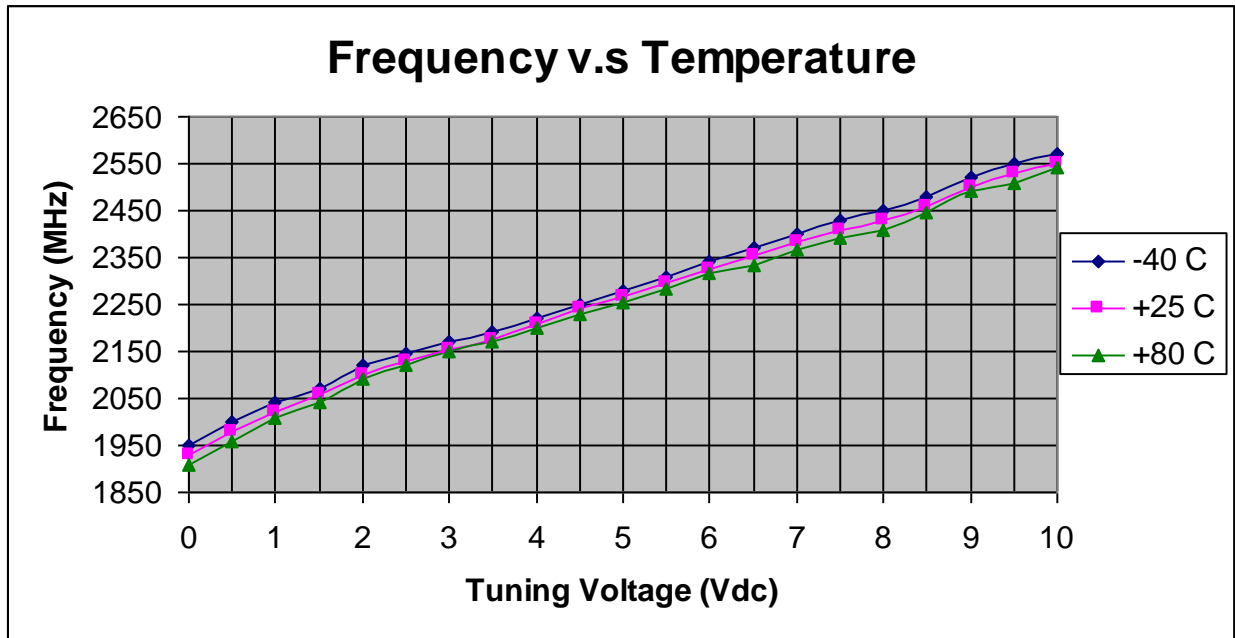
**2165-2360MHz VOLTAGE CONTROLLED  
OSCILLATOR**

---

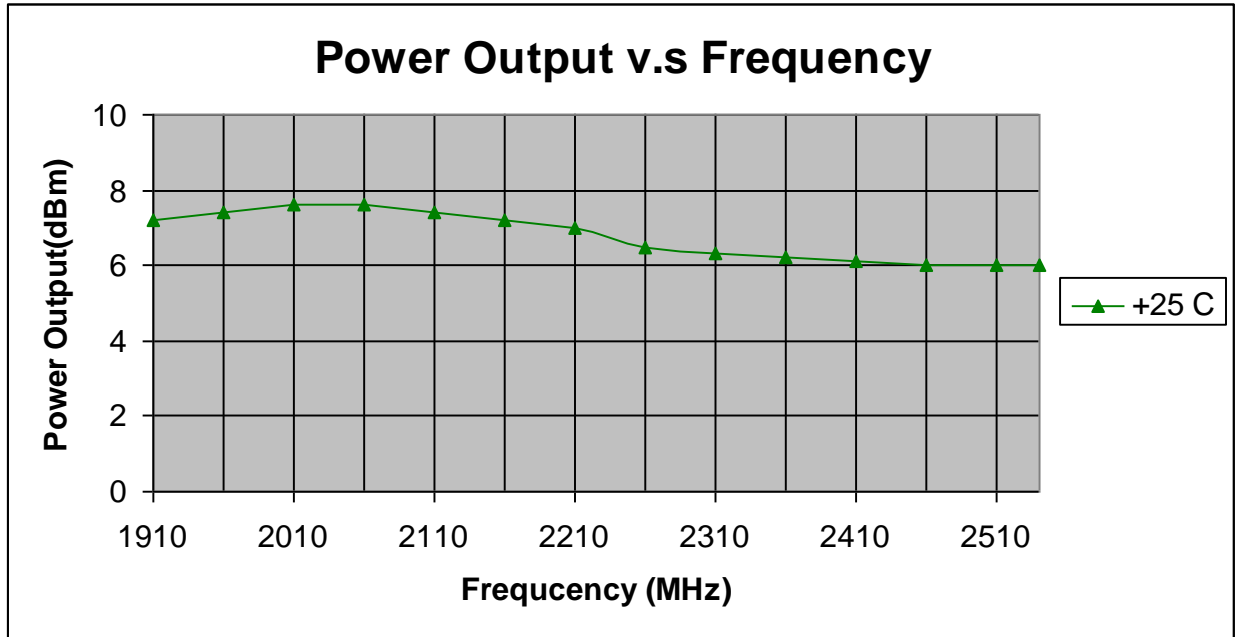
Operating Temp Range	°C	-40		+80
----------------------	----	-----	--	-----

**2165-2360MHz VOLTAGE CONTROLLED OSCILLATOR**

**Typical Performance @ +25 °C**



**2165-2360MHz VOLTAGE CONTROLLED OSCILLATOR**

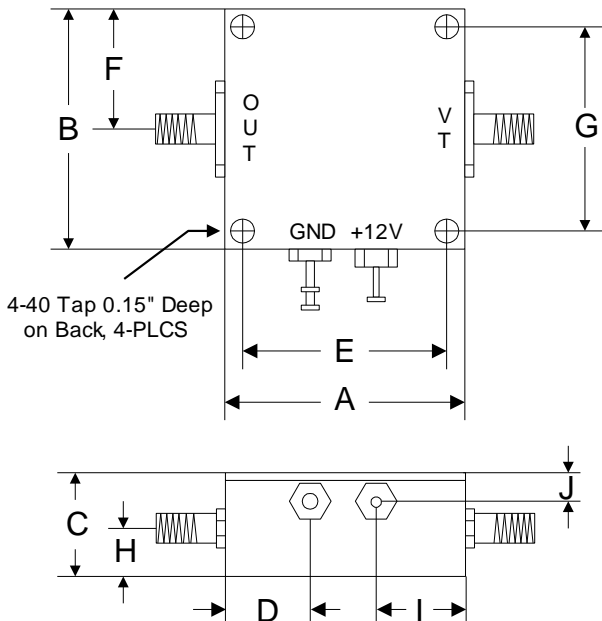


## 2165-2360MHz VOLTAGE CONTROLLED OSCILLATOR

### Absolute Maximum Ratings

Parameter	Absolute Maximum
Power Supply Voltage	+16V
Operating Temperature	-40 °C to +80 °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