HD32564

295-325MHz VOLTAGE CONTROLLED OSCILLATOR

Features

- Frequency: 295-325MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: +2dBm
- Phase Noise: -100dBc/Hz @ 10KHz offset
- Power Supply: +12V/15mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture

Description

HD32564 is a voltage controlled oscillator module with output frequency range of 295 to 325MHz.

Electrical Specifications @ +25 °C, Z_{out} = 50 Ω, Vsupply = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	295		325
Tuning Voltage	Vdc	0.5		4.5
Phase Noise @ 10KHz offset (1 Hz BW, typ)	dBc/Hz		-100	
Tuning Sensitivity	MHz/V		18	
Power Output	dBm	0	+2	+4
Harmonic Suppression (2^{nd})	dBc		-20	
Load Impedance	Ω		50	
Input Capacitance	pF		100	
Frequency Pulling	MHz		2	5
Supply Voltage	V	+9	+12	+15

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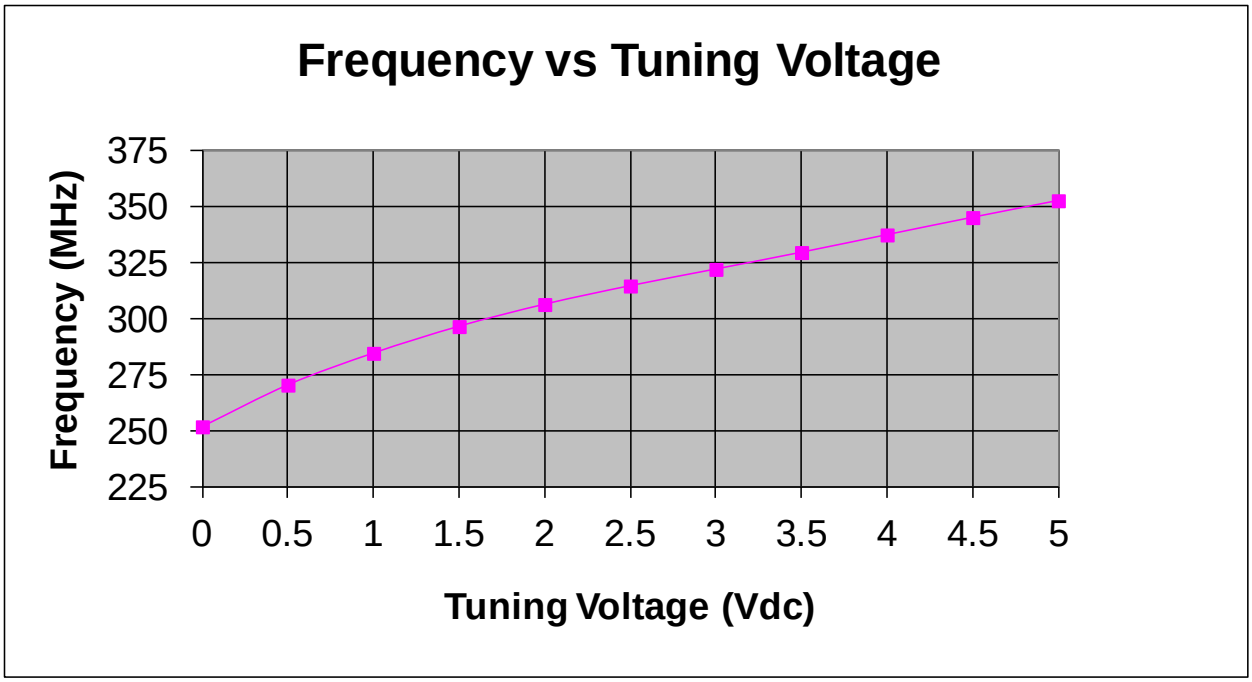
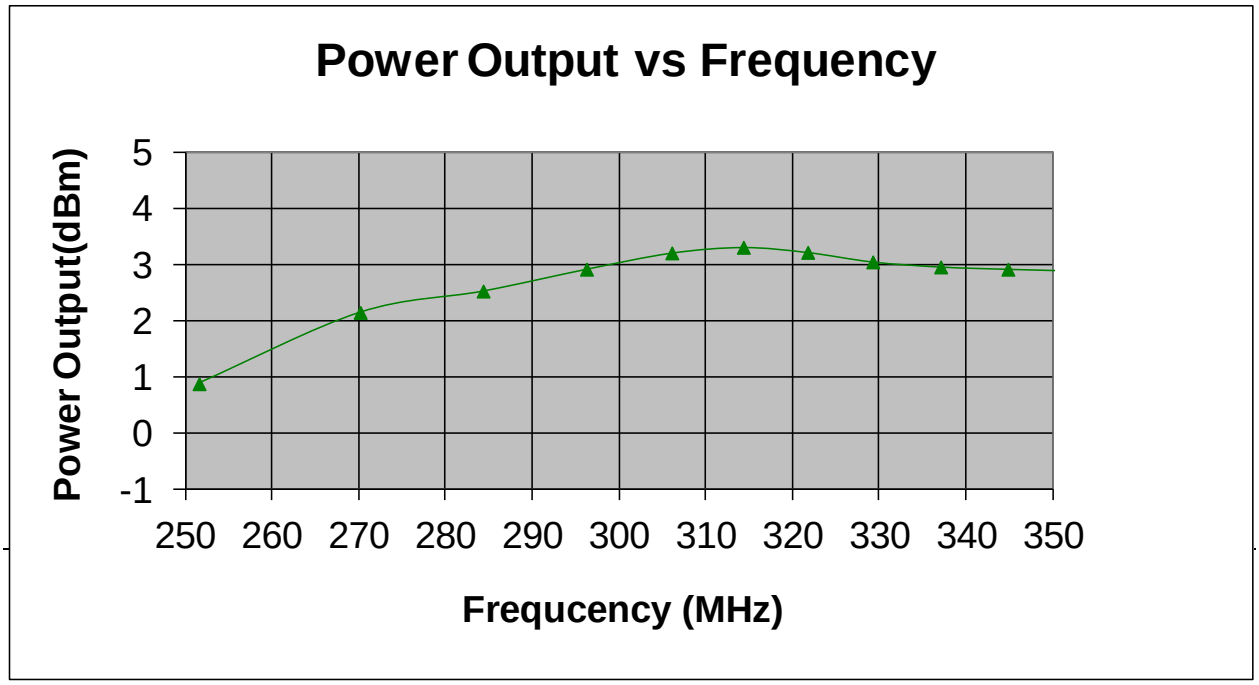
Supply Current	mA		15	
Operating Temp Range	°C	-40		+85

Typical Performance @ +25 °C





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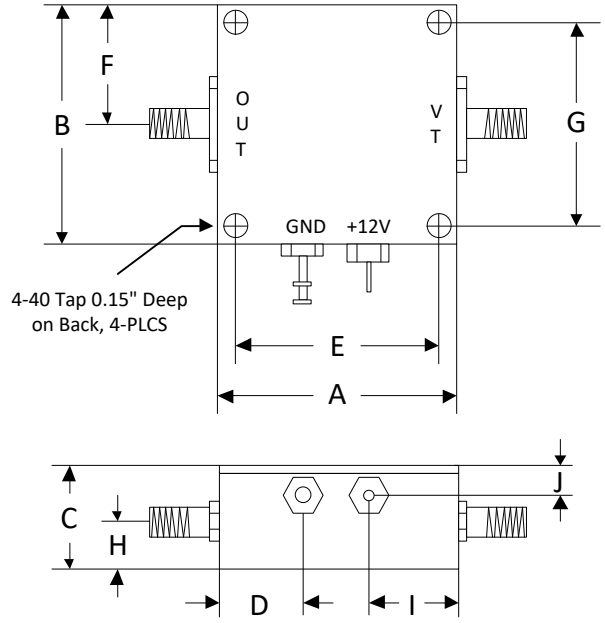
Absolute Maximum Ratings

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
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