

VCO Series

620-660MHz VOLTAGE CONTROLLED OSCILLATOR

Features

- Frequency: 620-660MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: 0dBm
- Phase Noise: -110dBc/Hz @ 10KHz offset
- Power Supply: +12V/17mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

VCO-0640 is a voltage controlled oscillator module with output frequency range of 620 to 660MHz.

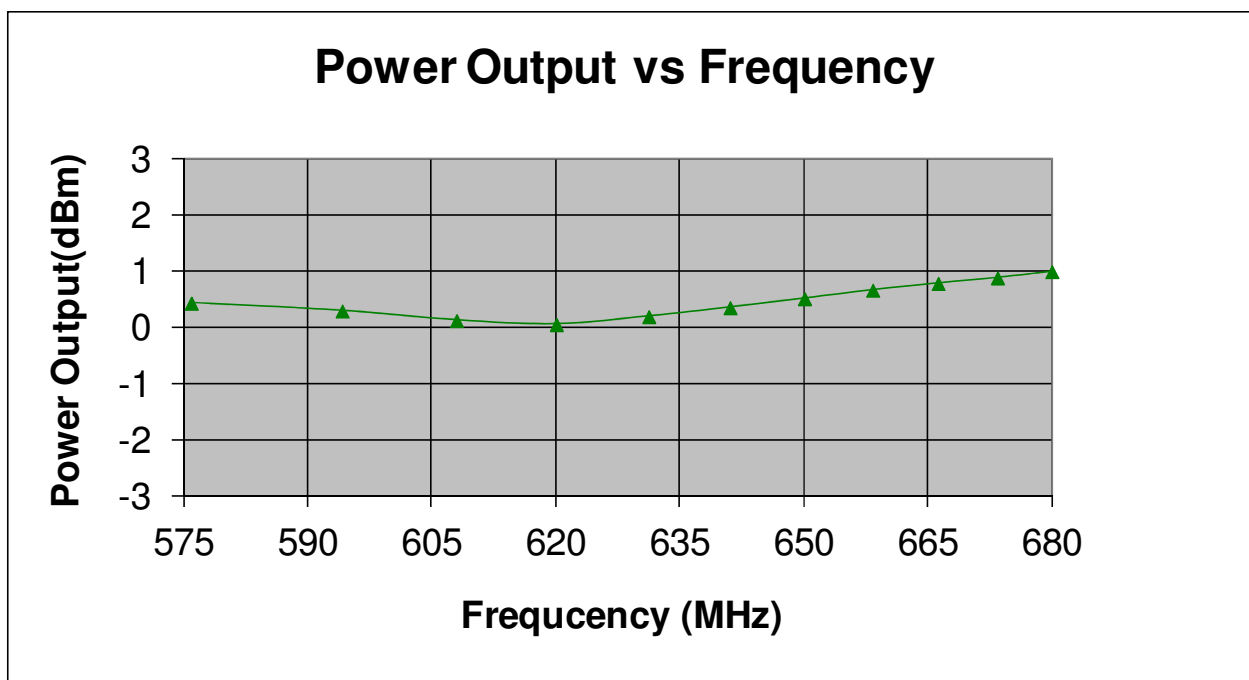
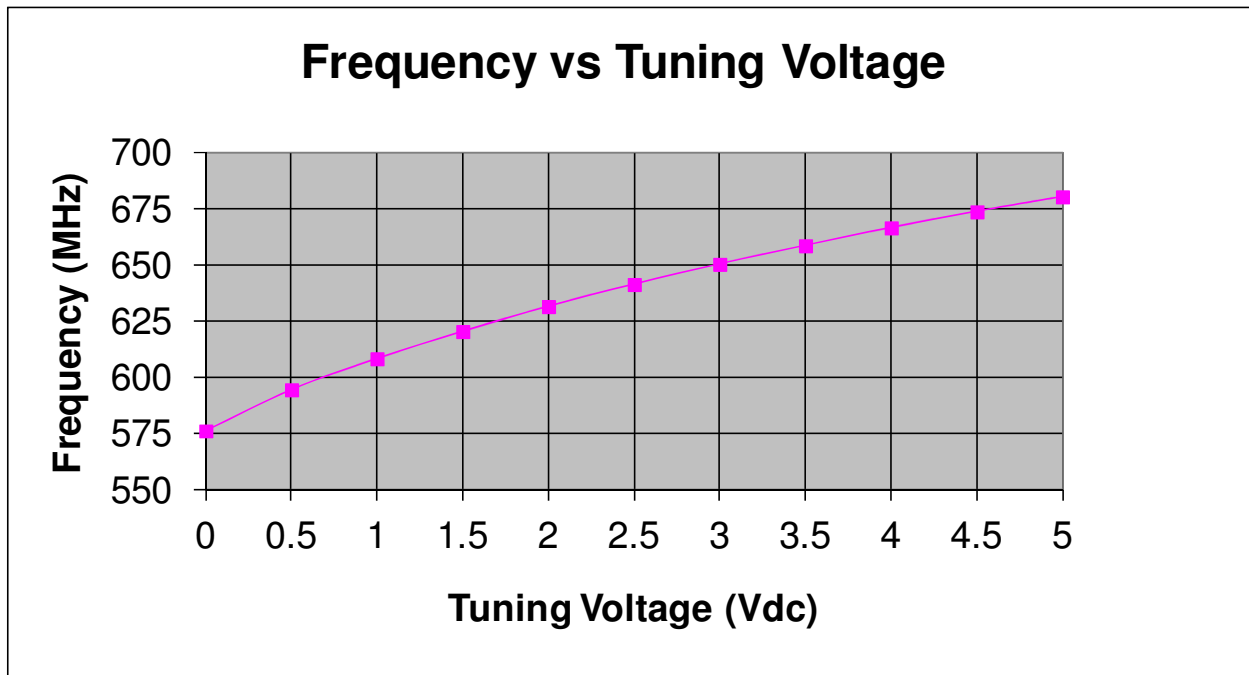
Electrical Specifications @ +25 °C, $Z_{out} = 50 \Omega$, $V_{supply} = +12V$

| Parameter | Unit | Minimum | Typical | Maximum |
|---|----------|---------|---------|---------|
| Frequency Range | MHz | 620 | | 660 |
| Tuning Voltage | Vdc | 0.5 | | 4.5 |
| Phase Noise @ 10KHz offset (1 Hz BW, typ) | dBc/Hz | | -110 | |
| Tuning Sensitivity | MHz/V | | 19 | |
| Power Output | dBm | -3 | 0 | +3 |
| Harmonic Suppression (2 nd) | dBc | | -13 | |
| Load Impedance | Ω | | 50 | |
| Input Capacitance | pF | | 100 | |
| Frequency Pulling | MHz | | | 2 |
| Supply Voltage | V | +9 | +12 | +15 |
| Supply Current | mA | | 17 | |
| Operating Temp Range | °C | -40 | | +85 |

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Typical Performance @ +25 °C



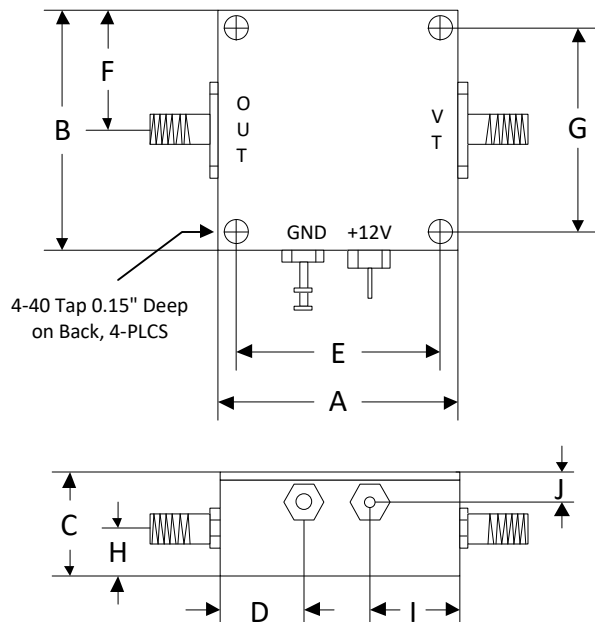
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Absolute Maximum Ratings

| 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 |