

VCO Series

2900-2990MHz VOLTAGE CONTROLLED OSCILLATOR

Features

- Frequency: 2900-2990MHz
- Tuning Voltage: 0.5-4.5V
- Power Output: +1Bm
- Phase Noise: -100dBc/Hz @ 10KHz offset
- Power Supply: +7V to +15V
- Temperature: -40 °C to +85 °C
- SMA Connector

Picture



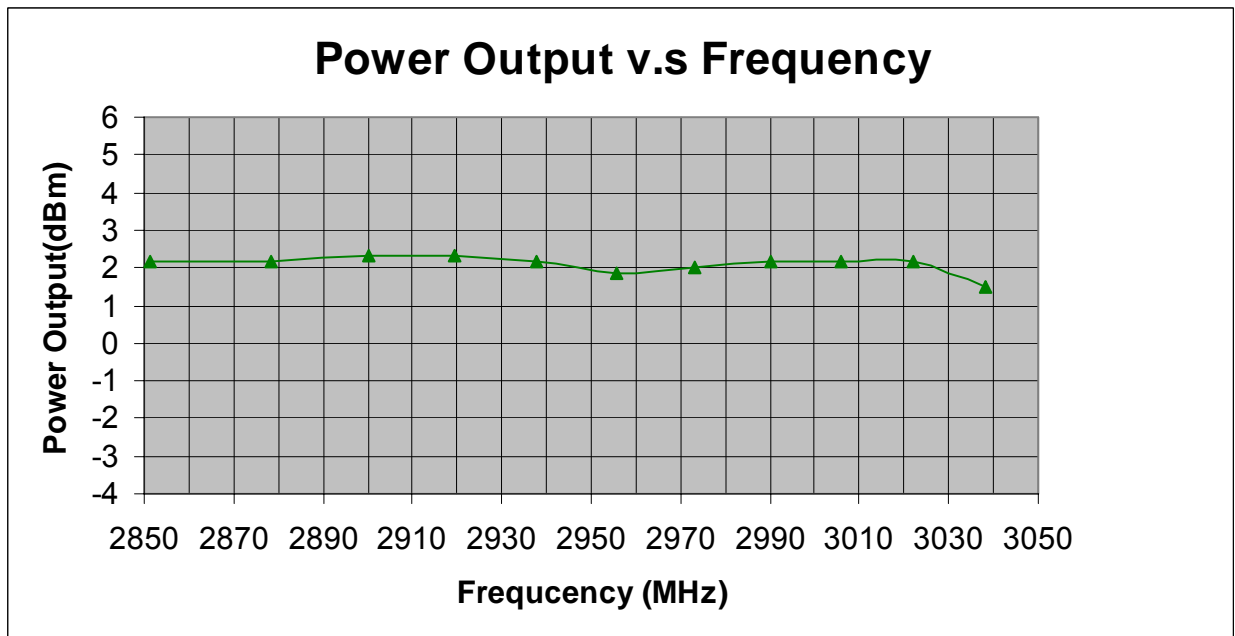
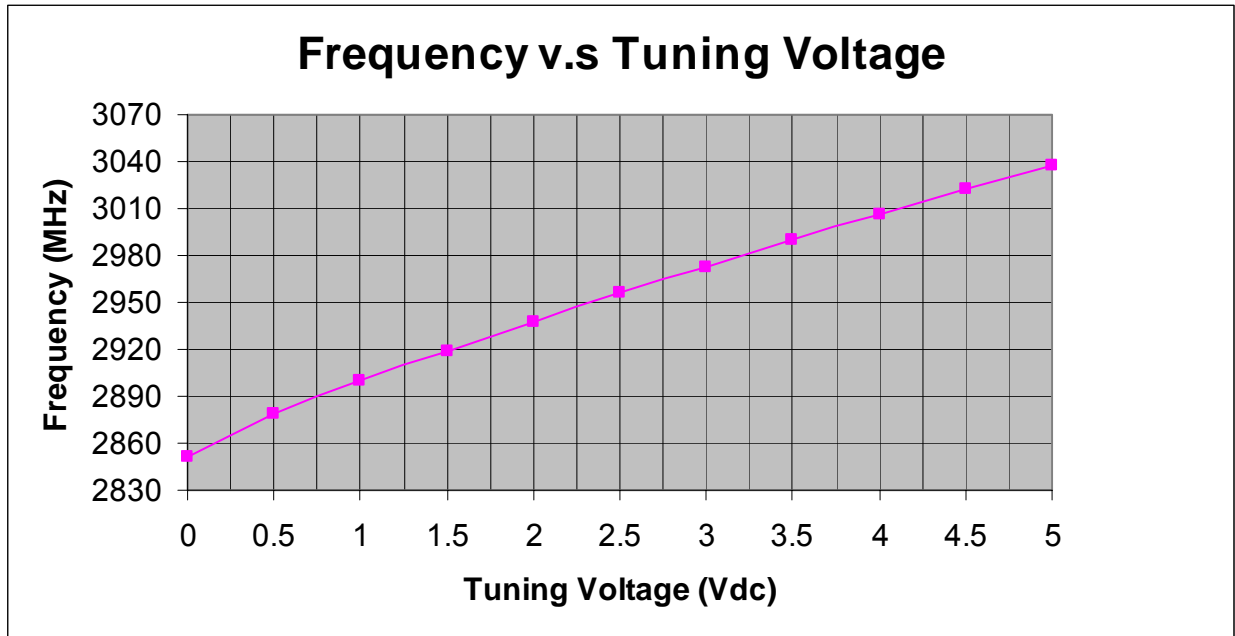
Description

VCO-2945 is a narrow range voltage controlled oscillator module with frequency range of 2900 to 2990MHz.

Electrical Specifications @ +25 °C

| Parameter | Unit | Minimum | Typical | Maximum |
|---|----------|---------|---------|---------|
| Frequency Range | MHz | 2900 | | 2990 |
| Tuning Voltage | Vdc | 0.5 | | 4.5 |
| Phase Noise @ 10KHz offset (1 Hz BW, typ) | dBc/Hz | | -100 | |
| Tuning Sensitivity | MHz/V | | 36 | |
| Power Output | dBm | -1 | +1 | |
| Harmonic Suppression (2 nd) | dBc | | -20 | -15 |
| Load Impedance | Ω | | 50 | |
| Input Capacitance | pF | | 50 | |
| Frequency Pulling | MHz | | 3 | |
| Supply Voltage | V | +7 | +12 | +15 |
| Supply Current | mA | | 30 | |
| Operating Temp Range | °C | -40 | | +85 |

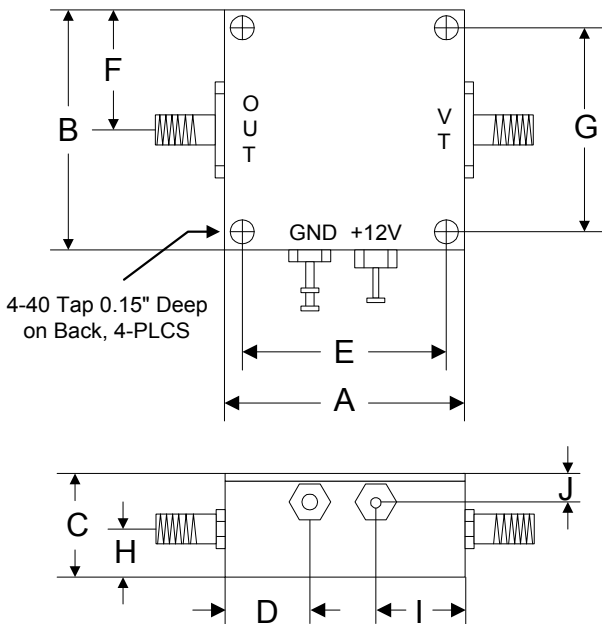
Typical Performance @ +25 °C



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 | 0.250 | 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 |