

# VOLTAGE CONTROLLED OSCILLATOR

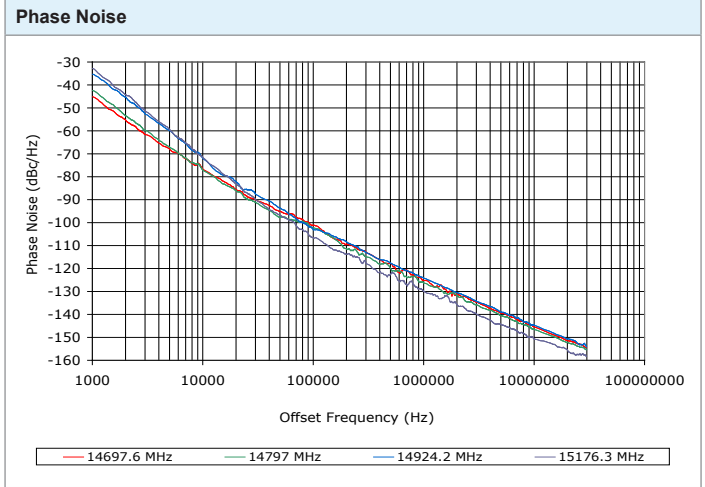
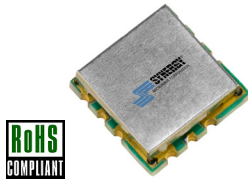
## SURFACE MOUNT MODEL: DXO14851515-5

**Ku-BAND OPTIMIZED BANDWIDTH**

**14850 - 15150 GHz**

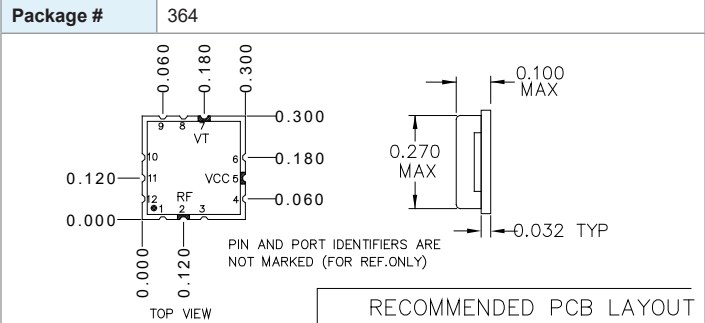
**FEATURES:**

- ▶ Miniature Size, Surface Mount (0.3" x 0.3")
- ▶ Low Phase Noise Performance
- ▶ Fast Tuning
- ▶ Planar Resonator Construction



**SPECIFICATIONS (Rev. A 05/18/16)**

Frequency	14850 - 15150 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 30 mA (Max.)
Output Power	+2 dBm (Min.)
Tuning Sensitivity	36 - 72 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	25 dB (Typ.)
Frequency Pulling	80 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	25 MHz/V (Typ.)
Tuning Port Capacitance	2.2 pF (Typ.)
Phase Noise @ 10 kHz	-74 dBc/Hz (Typ.)
Operating Temperature Range	-10 to +70 °C

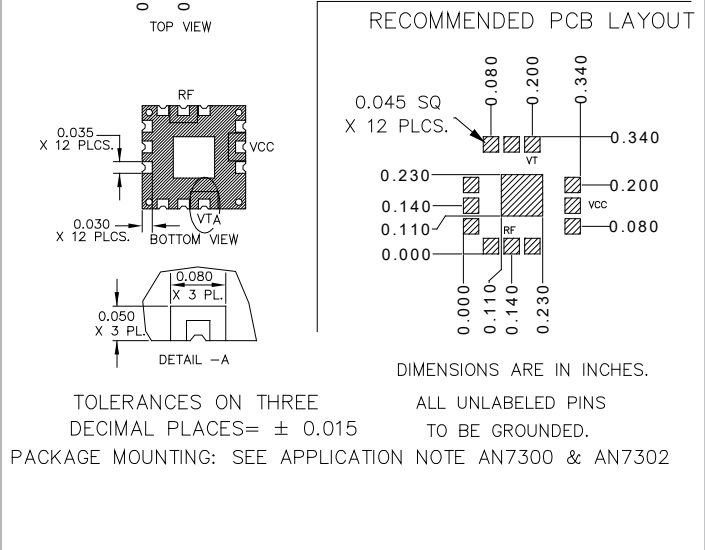


**Guaranteed Tuning Specifications**

Tuning Voltage ( V )	Frequency ( MHz )
0.5	14850 (Max.)
15	15150 (Min.)

**Absolute Maximum Ratings**

Storage Temp. Range	-40 to +100 °C
Bias Voltage	+5.5 V
Tuning Voltage	+16V
DC Voltage Applied to RF Out	± 25 V



Copyright © Synergy Microwave Corporation  
 201 McLean Boulevard • Paterson, New Jersey 07504 USA  
 Tel: (973) 881-8800 • Fax: (973) 881-8361  
 E-Mail: sales@synergymwave.com • Website: http://www.synergymwave.com  
 Patents : http://www.synergymwave.com/patents



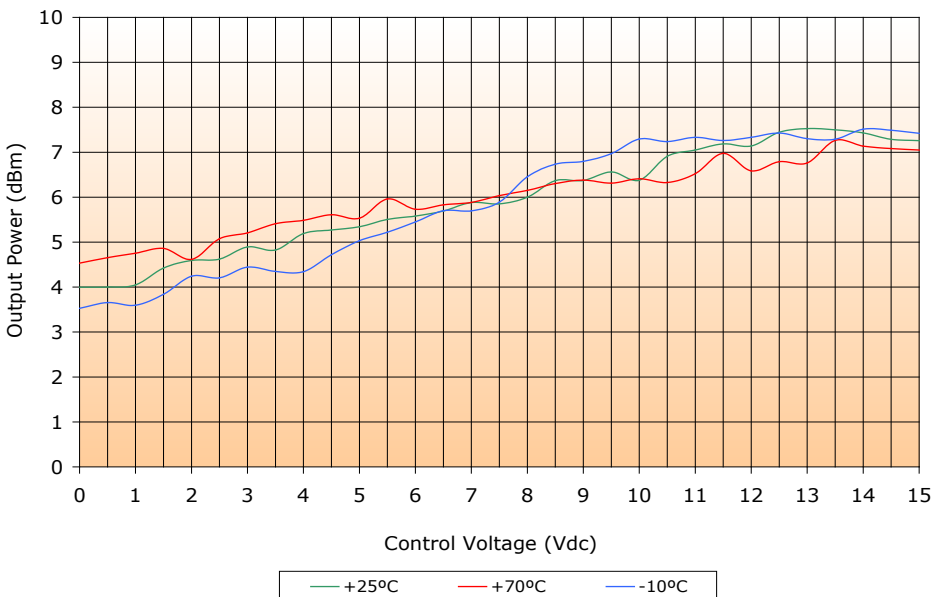
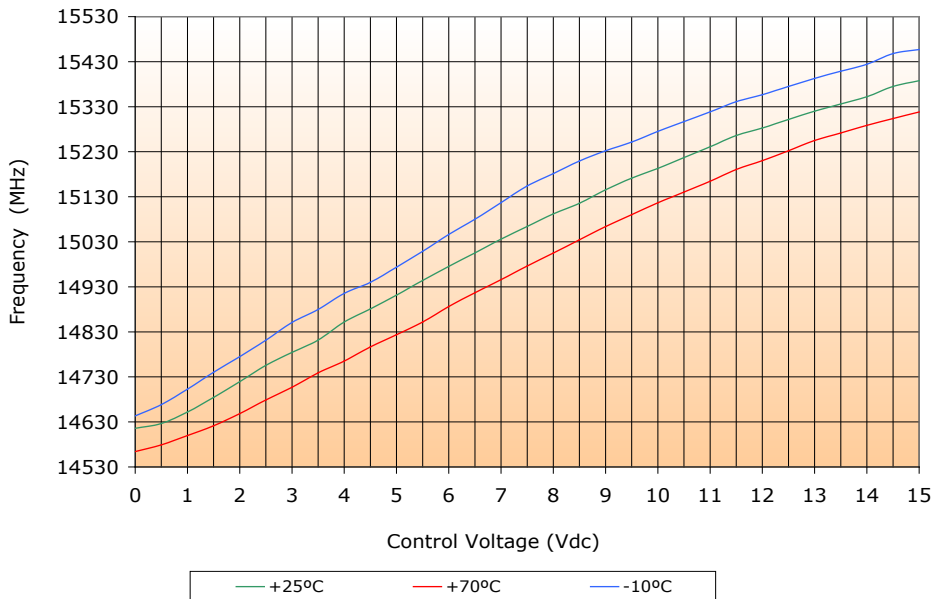
# VOLTAGE CONTROLLED OSCILLATOR

## SURFACE MOUNT MODEL: DXO14851515-5

Ku-BAND OPTIMIZED BANDWIDTH

14850 - 15150 GHz

PERFORMANCE PLOTS



# VOLTAGE CONTROLLED OSCILLATOR

## SURFACE MOUNT MODEL: DXO14851515-5

Ku-BAND OPTIMIZED BANDWIDTH

14850 - 15150 GHz

PERFORMANCE PLOTS

