

VOLTAGE CONTROLLED OSCILLATOR

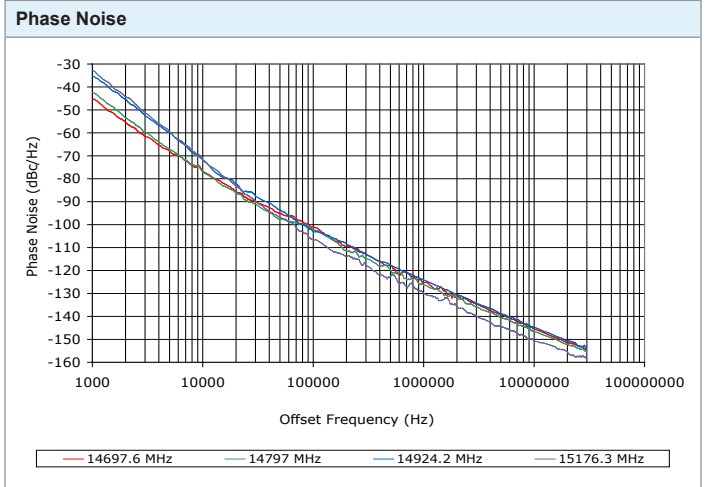
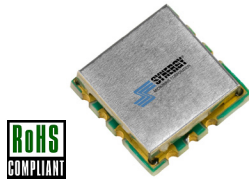
SURFACE MOUNT MODEL: DXO14851515-5

Ku-BAND OPTIMIZED BANDWIDTH

14850 - 15150 GHz

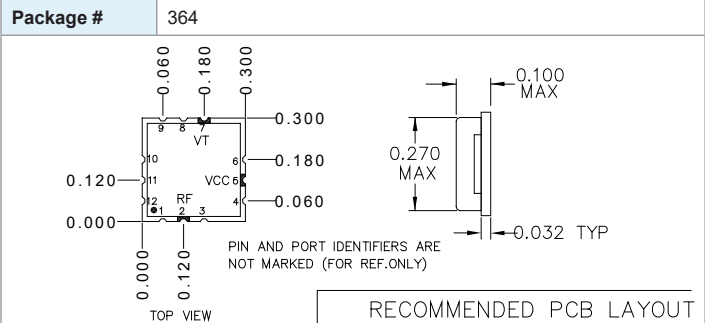
FEATURES:

- ▶ 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

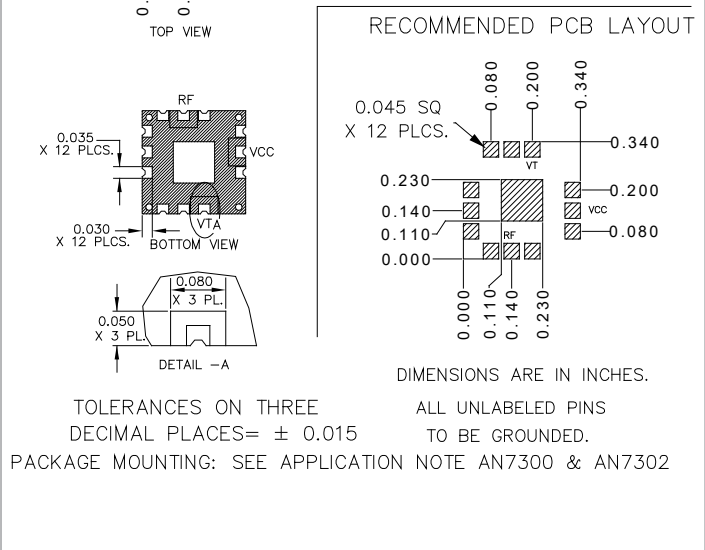


Guaranteed Tuning Specifications

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



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 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
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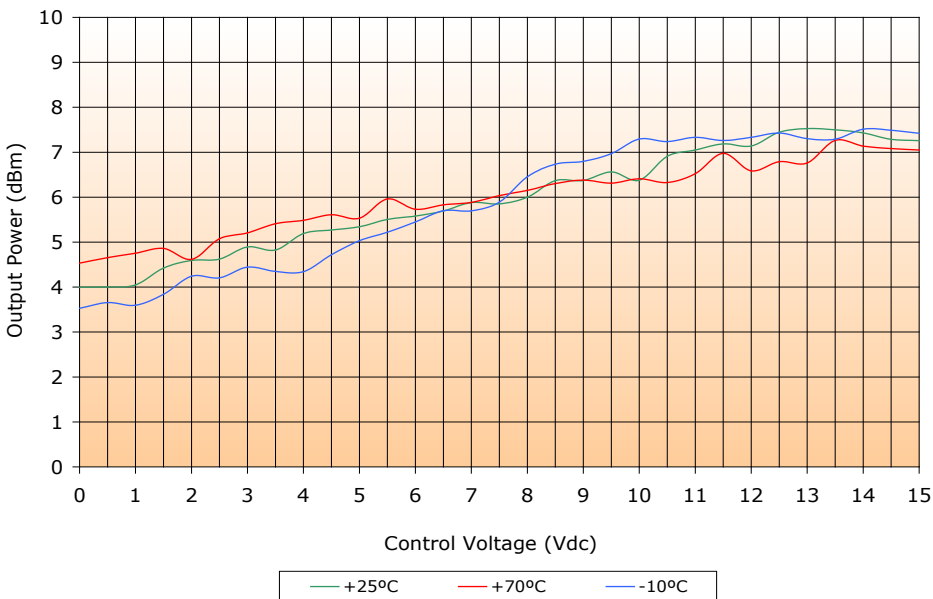
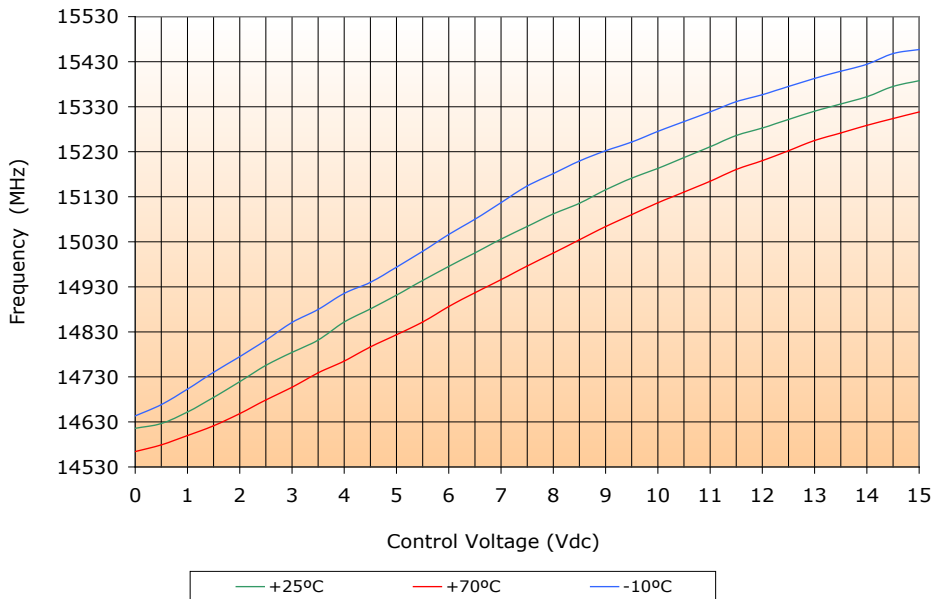
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PERFORMANCE PLOTS



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