

VOLTAGE CONTROLLED OSCILLATOR

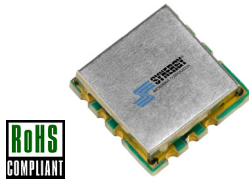
SURFACE MOUNT MODEL: DXO900965-5

X-BAND OPTIMIZED BANDWIDTH

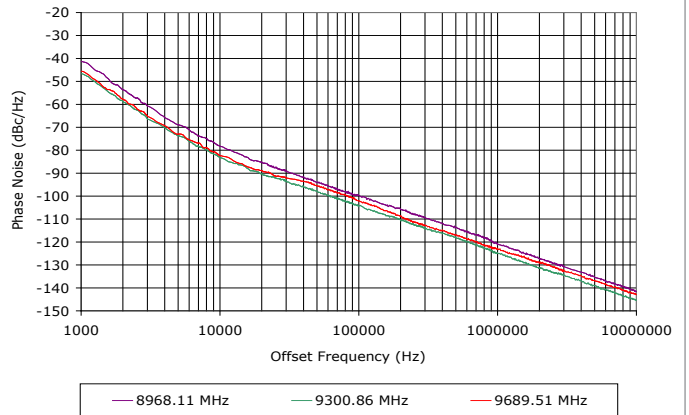
9000 - 9650 MHz

FEATURES:

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



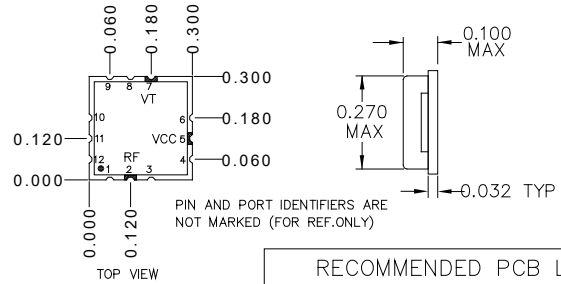
Phase Noise



SPECIFICATIONS (Rev. B 05/18/16)

Frequency	9000 - 9650 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 27 mA (Max.)
Output Power	-3 dBm (Min.)
Tuning Sensitivity	70 - 200 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	16 dB (Typ.)
Frequency Pulling	15 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	10 MHz/V (Typ.)
Tuning Port Capacitance	3 pF (Typ.)
Phase Noise @ 10 kHz	-80 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Package # 364

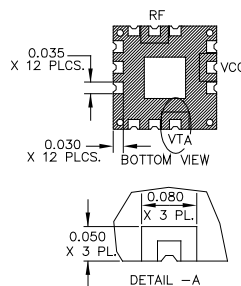


Guaranteed Tuning Specifications

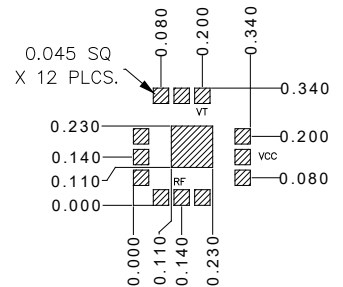
Tuning Voltage (V)	Frequency (MHz)
0.5	9000 (Max.)
12	9650 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V



RECOMMENDED PCB LAYOUT



DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015
 ALL UNLABELED PINS TO BE GROUNDED.
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300 & AN7302

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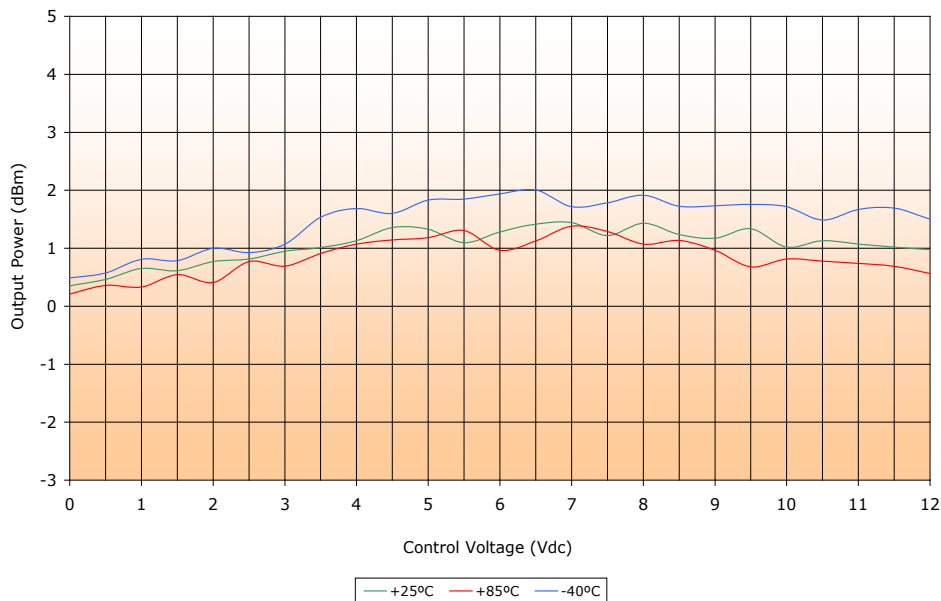
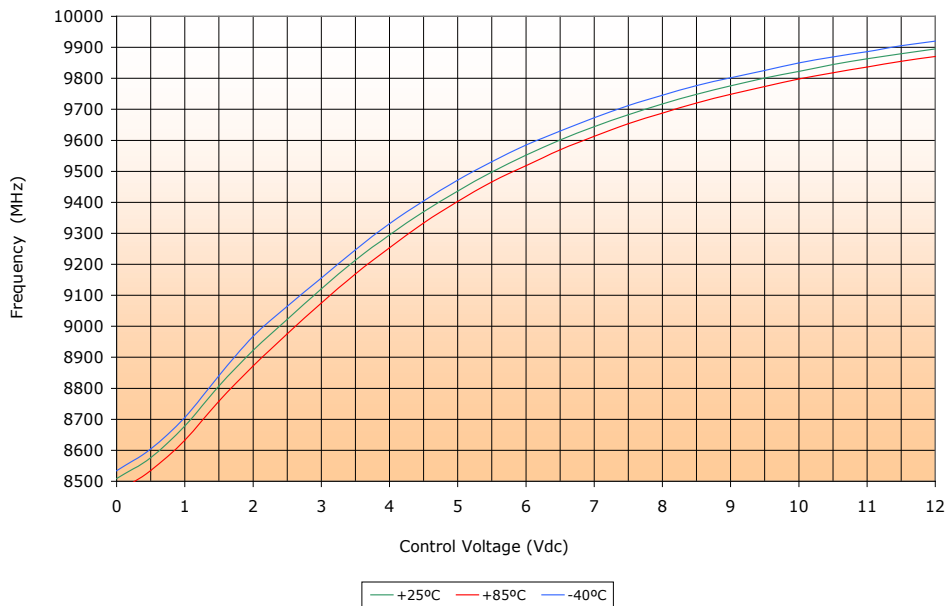
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X-BAND OPTIMIZED BANDWIDTH

9000 - 9650 MHz

PERFORMANCE PLOTS



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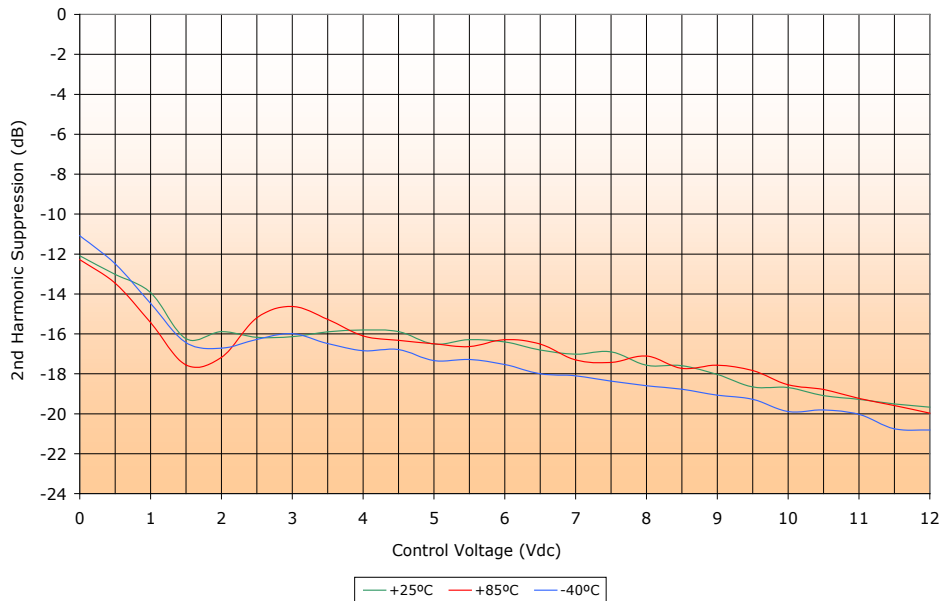
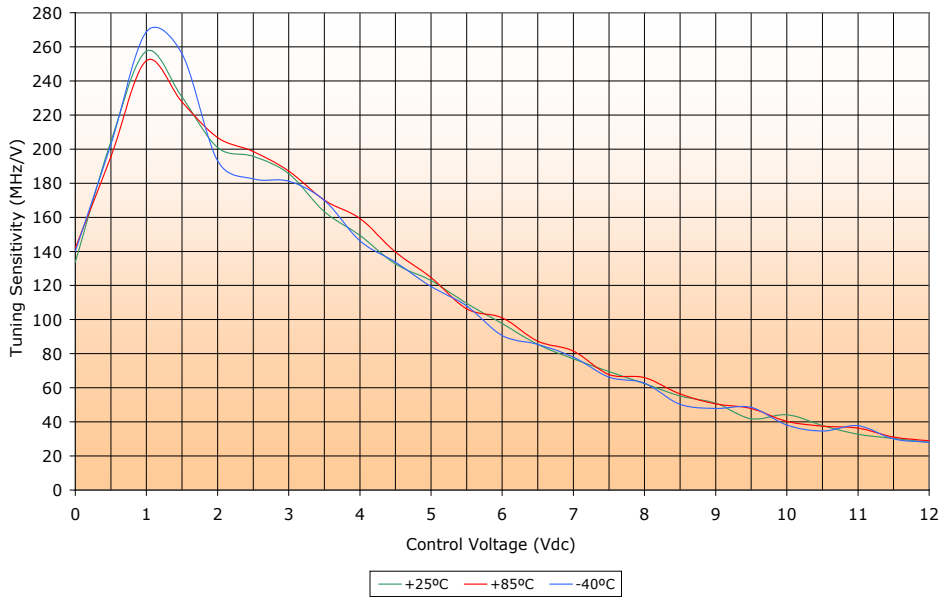
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