

VOLTAGE CONTROLLED OSCILLATOR

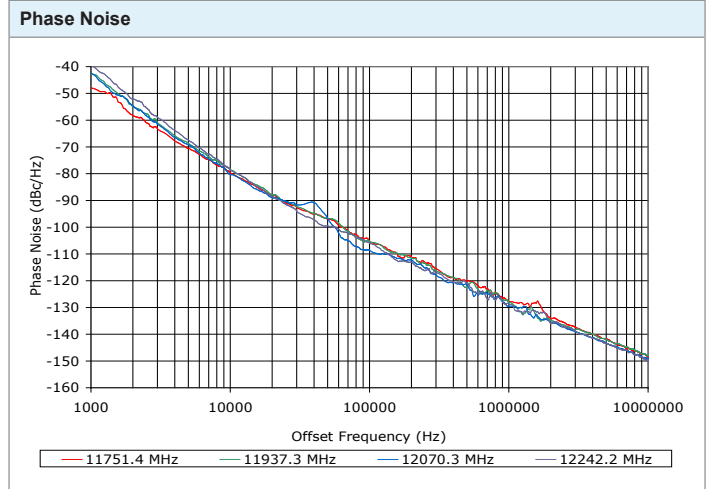
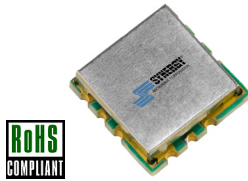
SURFACE MOUNT MODEL: DXO11751220-5

X-BAND OPTIMIZED BANDWIDTH

11750 - 12200 MHz

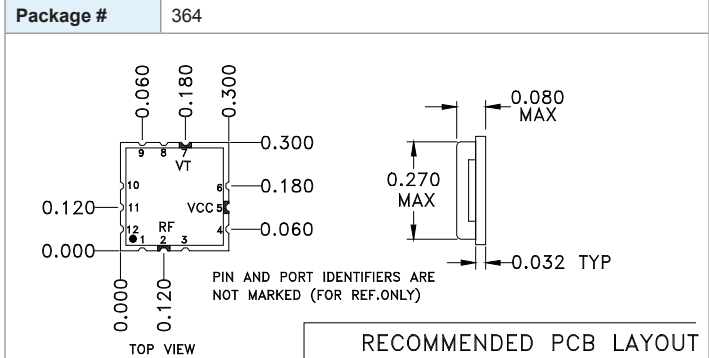
FEATURES:

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



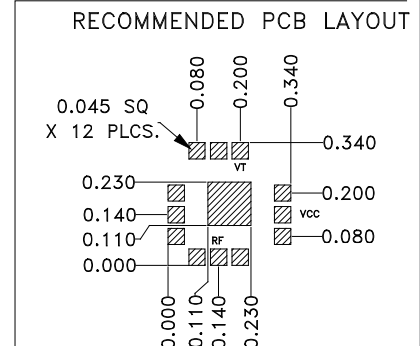
SPECIFICATIONS (Rev. A 11/10/09)

Frequency	11750 - 12200 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 30 mA (Max.)
Output Power	+4 dBm (Min.)
Tuning Sensitivity	52 - 64 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	28 dB (Typ.)
Frequency Pulling	25 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	12 MHz/V (Typ.)
Tuning Port Capacitance	2 pF (Typ.)
Phase Noise @ 10 kHz	-80 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	11750 (Max.)
15	12200 (Min.)



Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+16V
DC Voltage Applied to RF Out	± 25 V

DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

ALL UNLABELED PINS TO BE GROUNDING.

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300

This product is manufactured under one or more of the following patents. Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,650,754; 5,805,431; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,282,670; 7,285,642; 7,292,113; 7,385,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,886,381; 7,605,670; 7,536,021; 2,533,623 | Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751

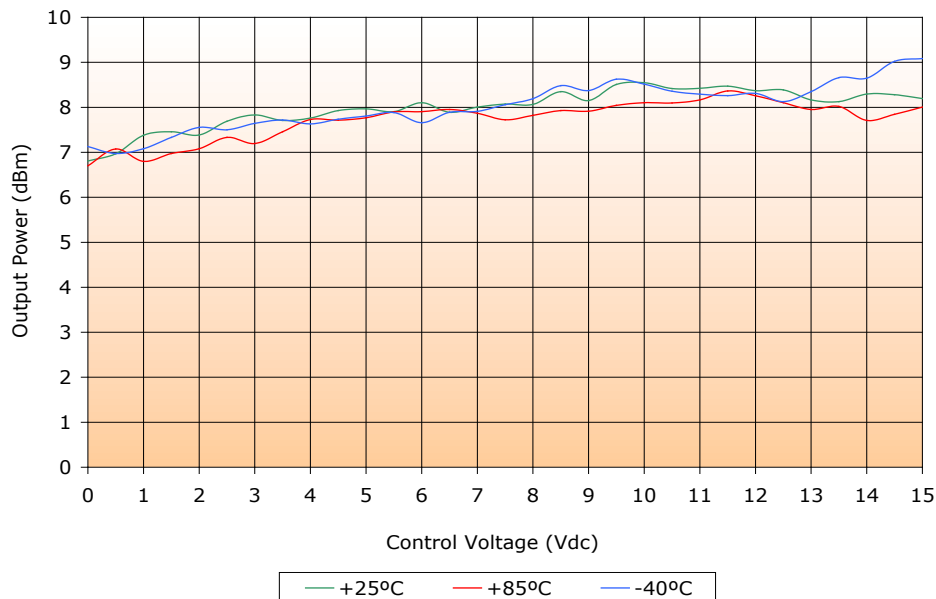
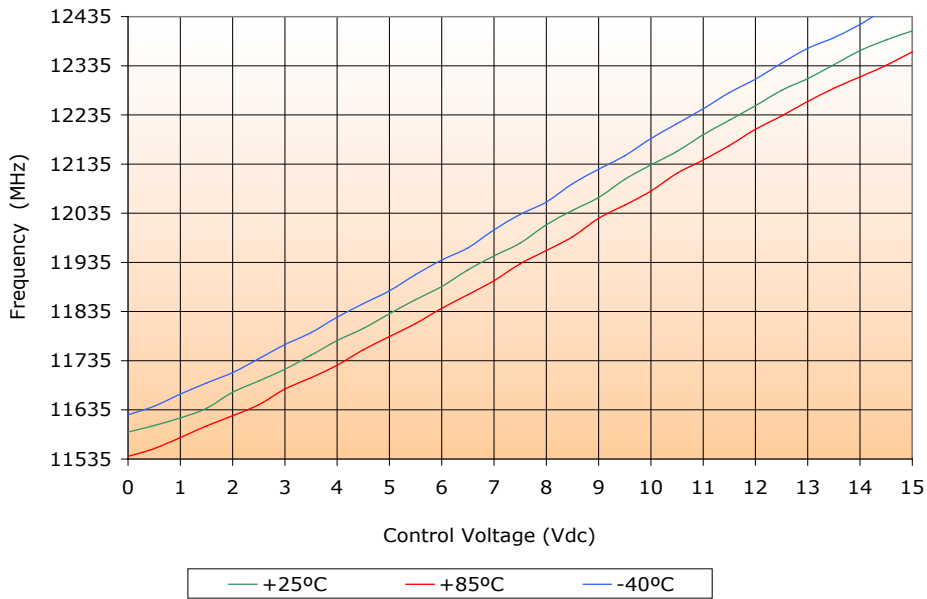
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PERFORMANCE PLOTS



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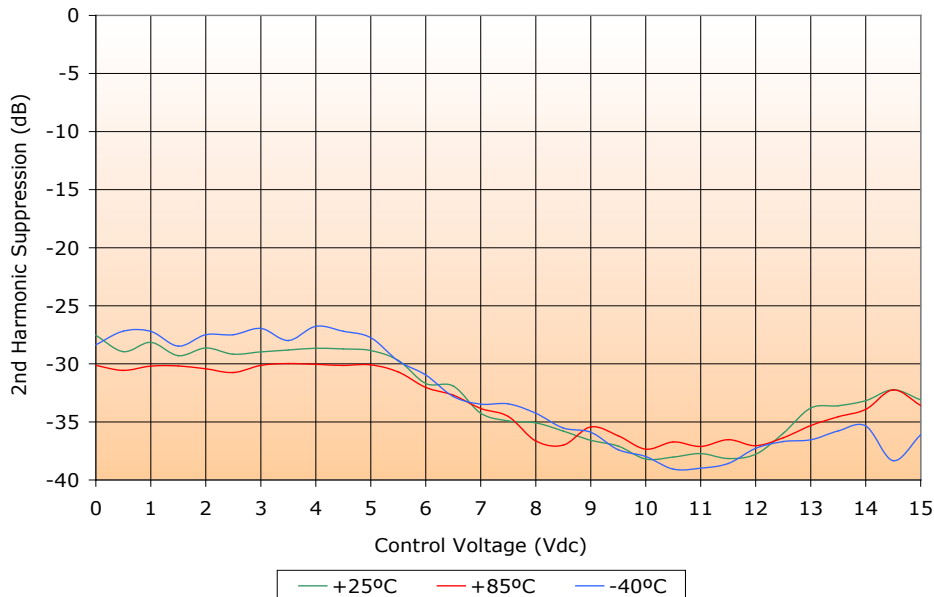
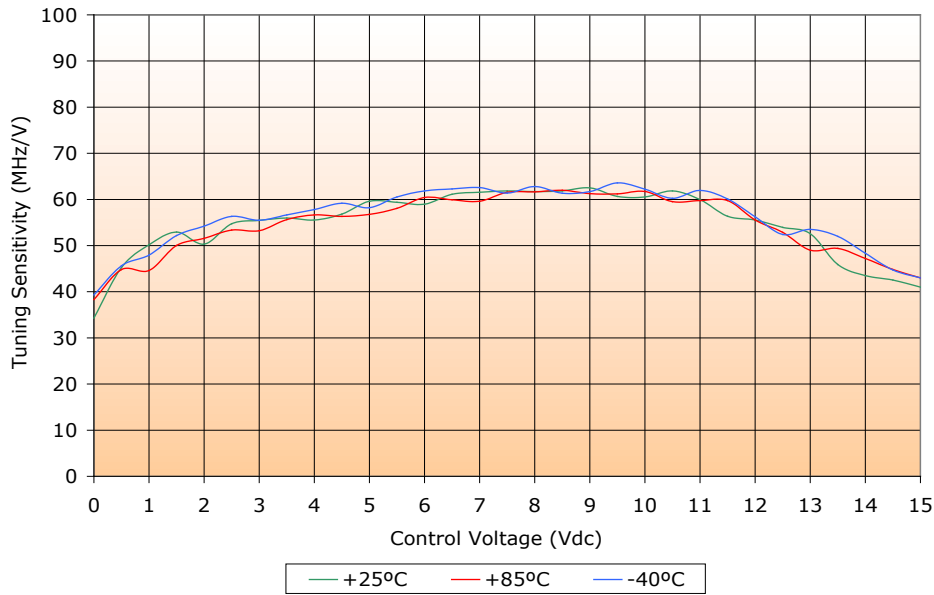
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