

DIELECTRIC RESONATOR OSCILLATOR

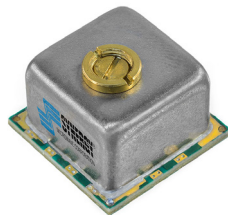
SURFACE MOUNT MODEL: SDRO1024-8

FREQUENCY

10.24 GHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size Surface Mount
- ▶ Lead Free RoHS Compliant



Phase Noise



SPECIFICATIONS (Rev. D 07/08/19)

Frequency	10.24 GHz	
Tuning Voltage	1 - 15 VDC	
Bias Voltage	+8 VDC @ 25 mA (Max.)	
Output Power	-2 dBm (Min.)	
Tuning Sensitivity	0.4 MHz/V (Typ.)	
Thermal Drift	2 ppm / °C (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	28 dBc (Typ.)	
Frequency Pulling	500 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	500 kHz/V (Typ.)	
Tuning Port Capacitance	35 pF (Typ.)	
Modulation Bandwidth	> 20 MHz	
Phase Noise	Offset	dBc/Hz (Typ.)
	10 kHz	-105
	100 kHz	-125
	1 MHz	-145
	10 MHz	-165
Jitter	50 fs (@ 1 kHz to 30 MHz) (Typ.)	
Operating Temperature Range	-15 to +75 °C	

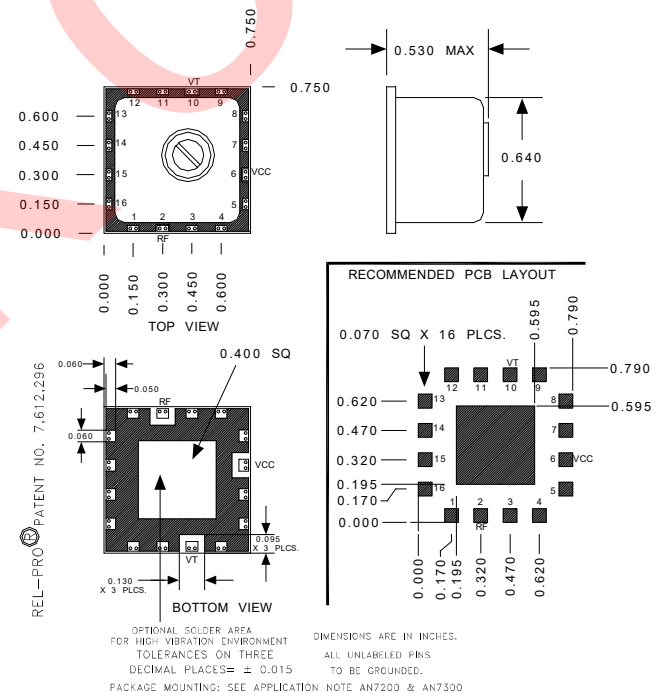
Absolute Maximum Ratings

Storage Temp. Range	-30 to +85 °C
Bias Voltage	+8.5 V
Tuning Voltage	+16 V
DC Voltage Applied to RF Out	±25 V

Notes:

1. Tuning of the mechanical screw can cause significant shifts in frequency and cause irreversible damage to the product. Warranty is void if tuning screw exceeds ±0.5 turn max.
2. Test data measured with bias voltage at +8V.
3. Specifications guaranteed at 10.24 GHz.

Package # 396

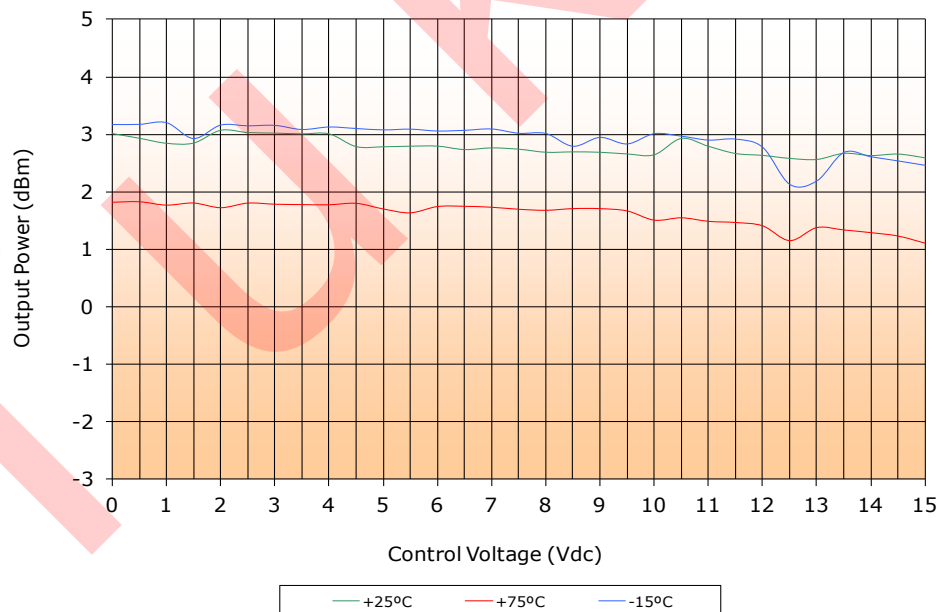
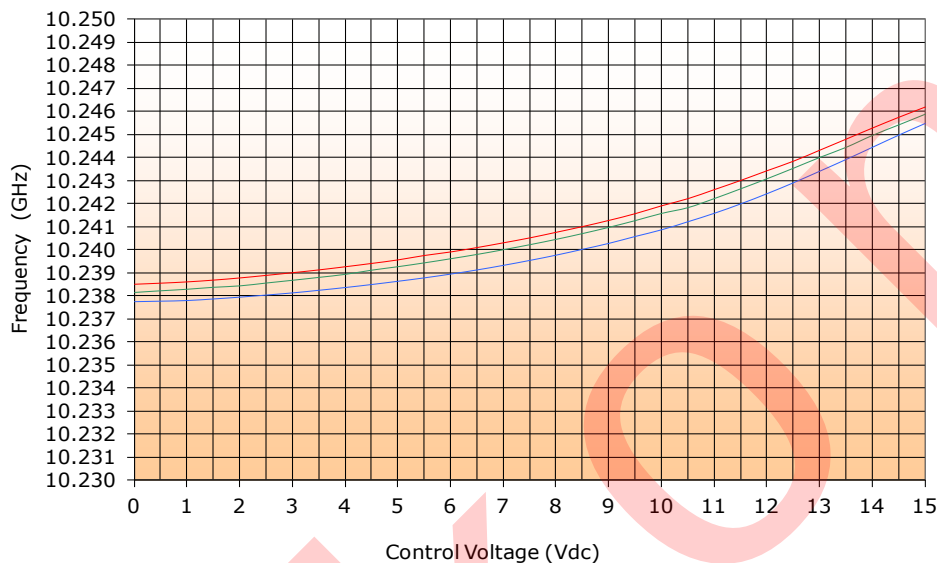


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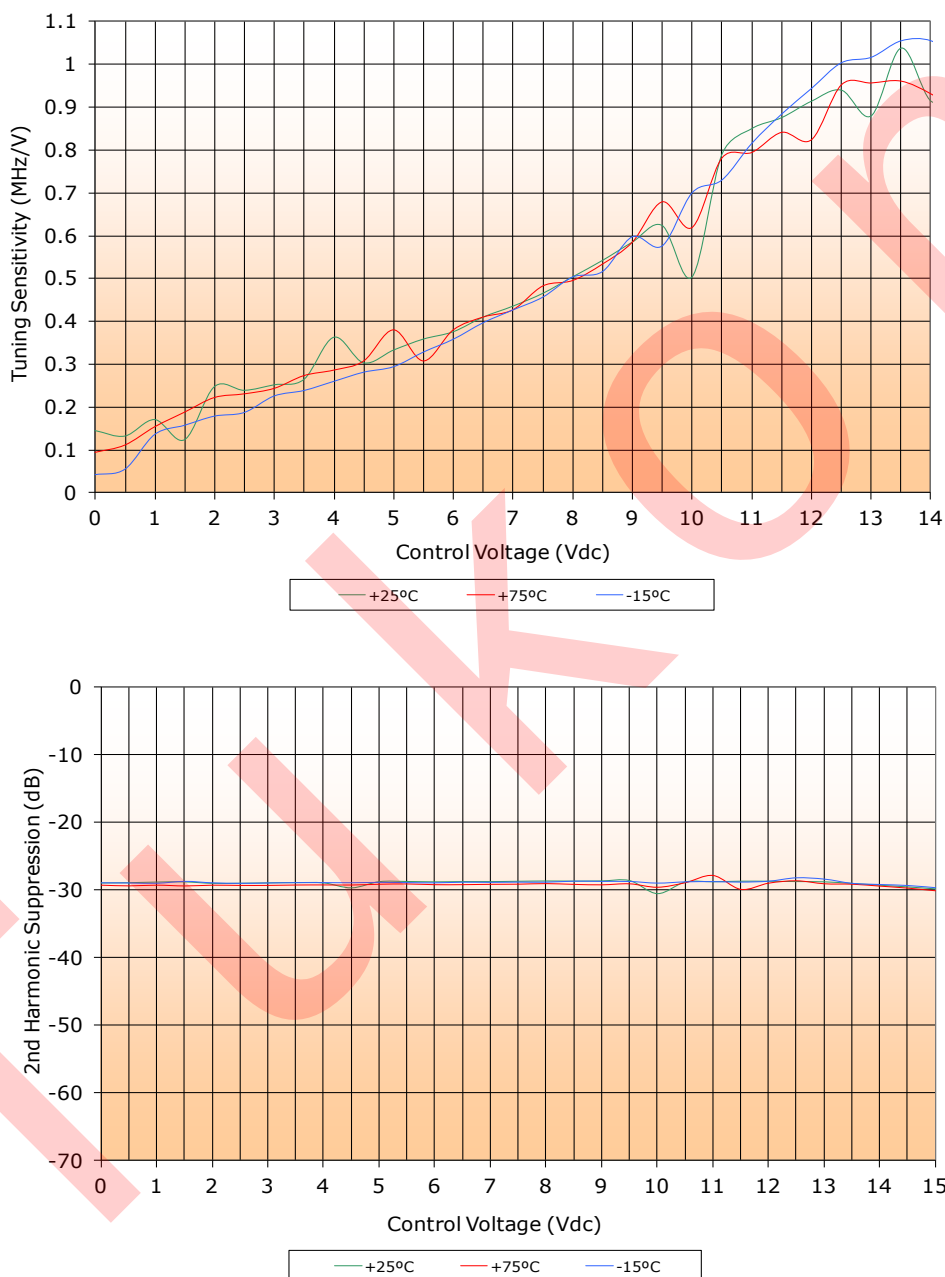
PERFORMANCE PLOTS

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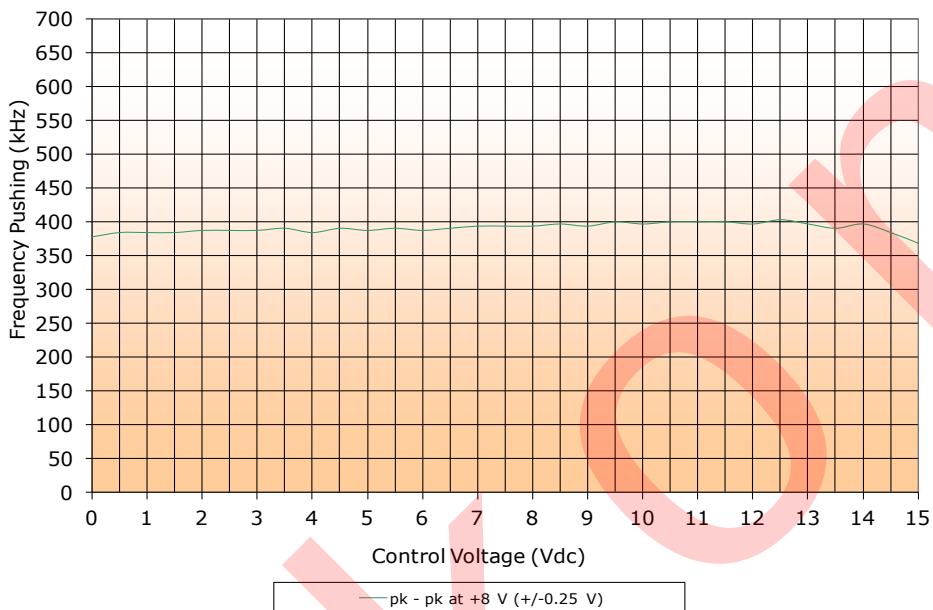
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