

DIELECTRIC RESONATOR OSCILLATOR

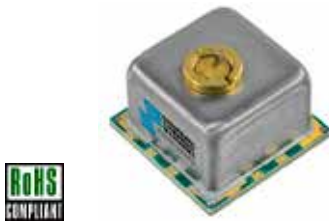
SURFACE MOUNT MODEL: SDRO1024-8

FREQUENCY

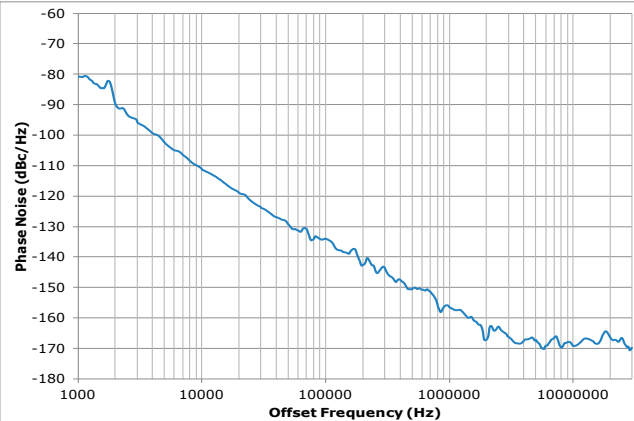
10.24 GHz

FEATURES:

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



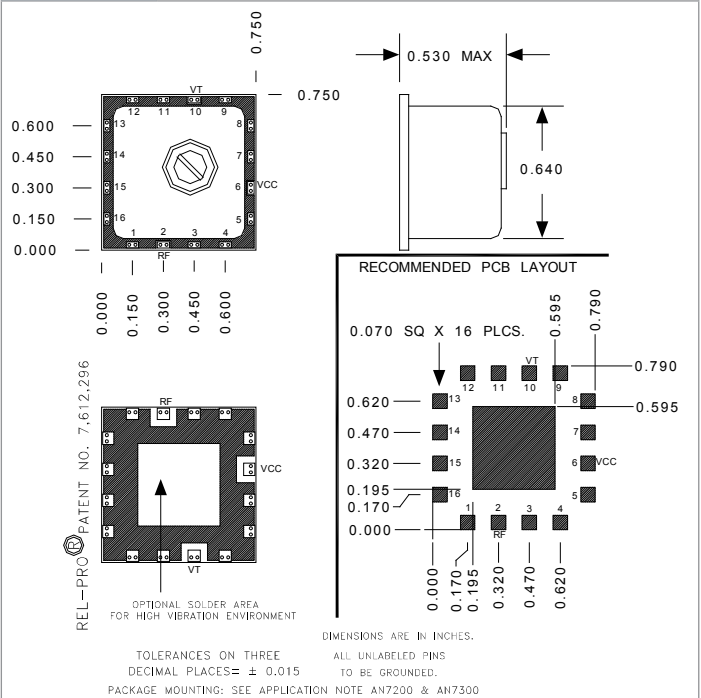
Phase Noise



SPECIFICATIONS (Rev. A 10/08/14)

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	-111
	100 kHz	-131
	1 MHz	-153
	10 MHz	-165
Jitter	50 fs (@ 1 kHz to 30 MHz) (Typ.)	
Operating Temperature Range	-15 to +75 °C	

Package # 396



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 screws are factory locked for optimum performance at the center frequency. Tuning of the mechanical screw can cause significant shifts in frequency and adversely affect overall performance. Warranty is void if seal over tuning screw is damaged.
2. Test data measured with bias voltage at +8V.
3. Specifications guaranteed at 10.24 GHz.

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>



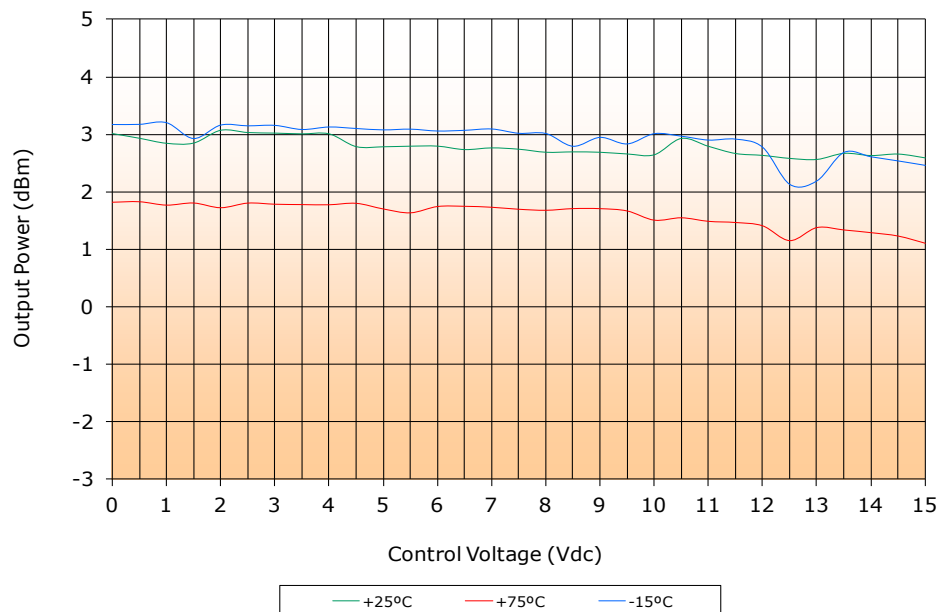
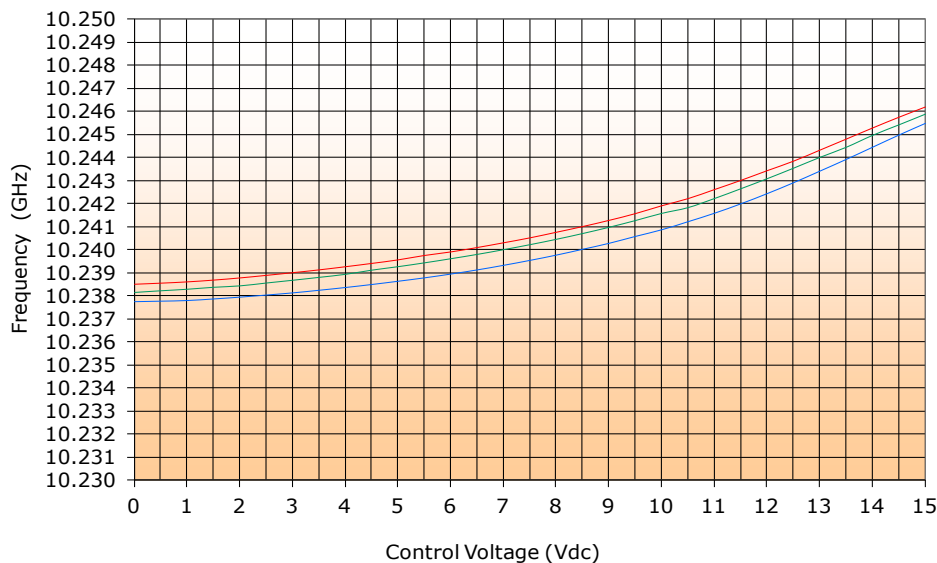
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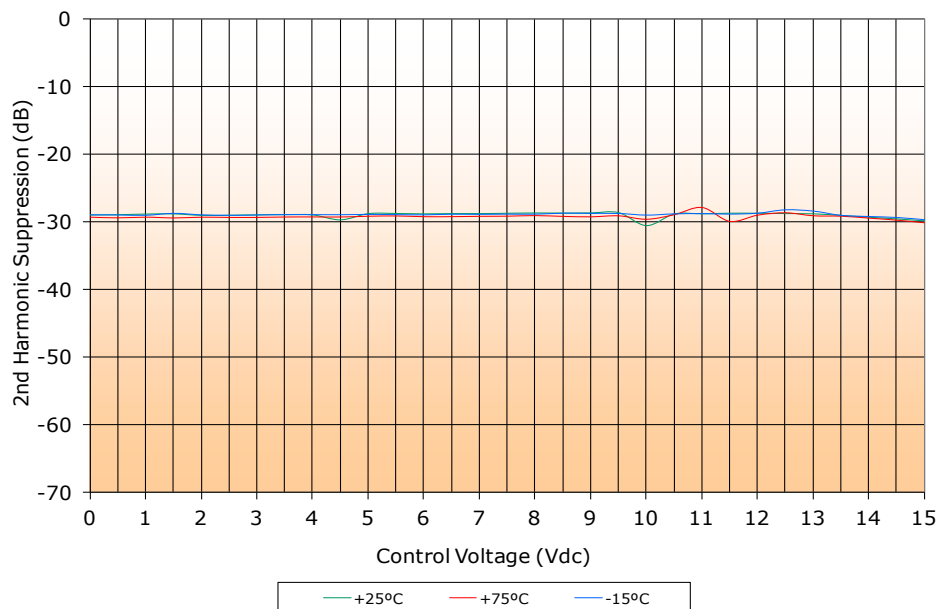
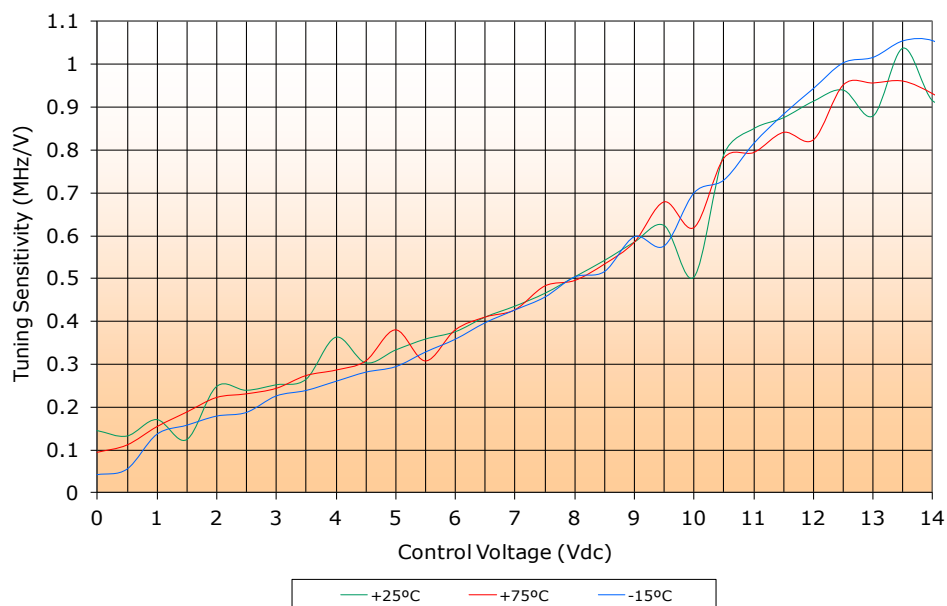
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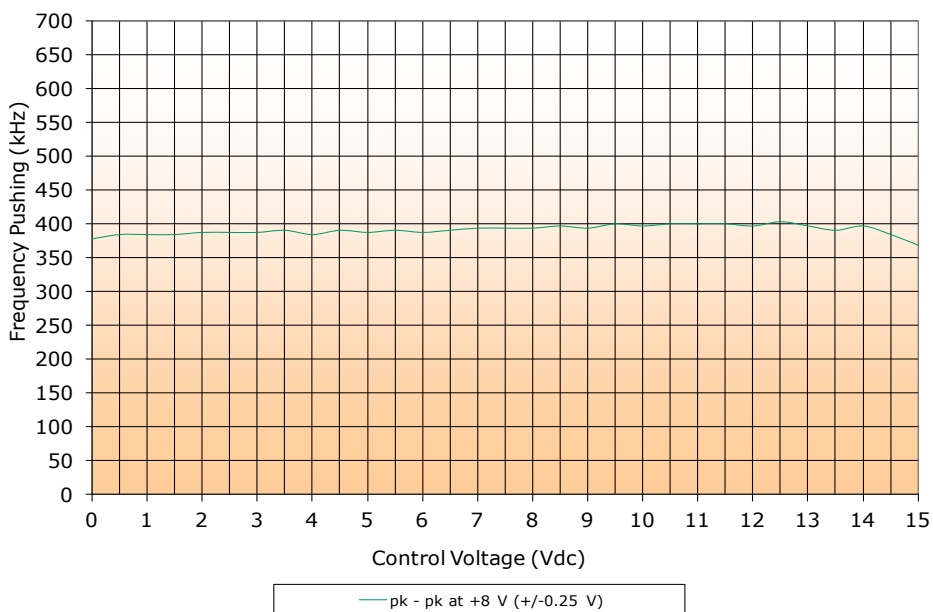


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