

DIELECTRIC RESONATOR OSCILLATOR

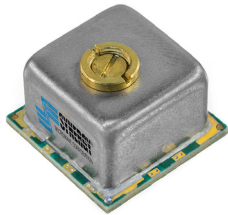
SURFACE MOUNT MODEL: SDRO900-8

FREQUENCY

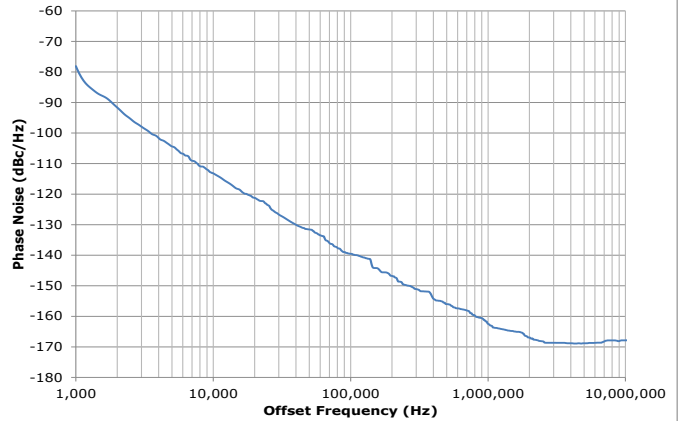
9 GHz

FEATURES:

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

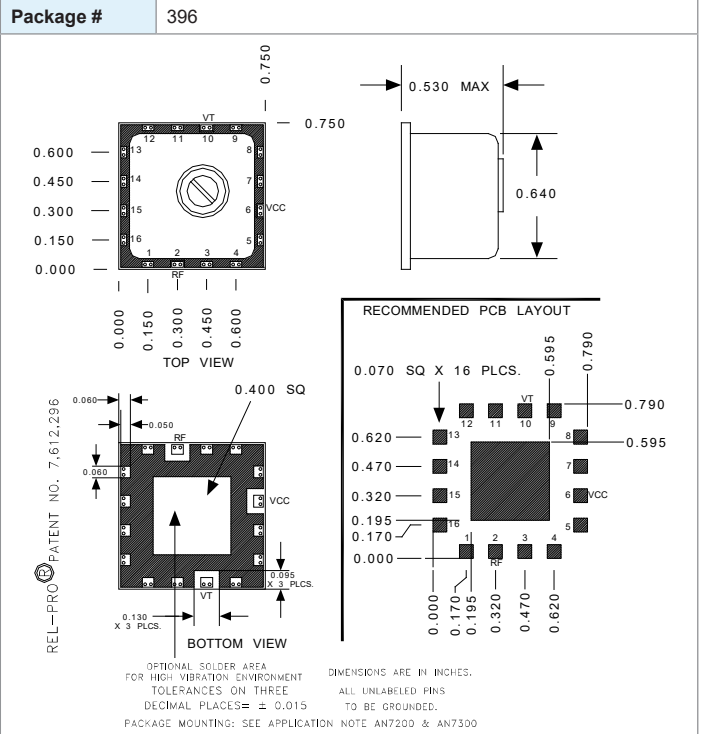


Phase Noise



SPECIFICATIONS (Rev. B 10/02/19)

Frequency	9 GHz										
Tuning Voltage	1 - 10 VDC										
Bias Voltage	+8 VDC @ 25 mA (Max.)										
Output Power	+1 dBm (Min.)										
Tuning Sensitivity	1 MHz/V (Typ.)										
Thermal Drift	5 ppm / °C (Typ.)										
Output Impedance	50 Ohms (Nom.)										
Harmonic Suppression	21 dBc (Typ.)										
Frequency Pulling	1 MHz (Typ. @ 1.75:1 VSWR)										
Frequency Pushing	400 kHz/V (Typ.)										
Tuning Port Capacitance	10 pF (Typ.)										
Phase Noise @ 25 °C	<table border="1"> <thead> <tr> <th>Offset</th> <th>dBc/Hz (Typ.)</th> </tr> </thead> <tbody> <tr> <td>10 kHz</td> <td>-112</td> </tr> <tr> <td>100 kHz</td> <td>-132</td> </tr> <tr> <td>1 MHz</td> <td>-152</td> </tr> <tr> <td>10 MHz</td> <td>-165</td> </tr> </tbody> </table>	Offset	dBc/Hz (Typ.)	10 kHz	-112	100 kHz	-132	1 MHz	-152	10 MHz	-165
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	10 kHz	-112									
	100 kHz	-132									
1 MHz	-152										
10 MHz	-165										
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 9 GHz.

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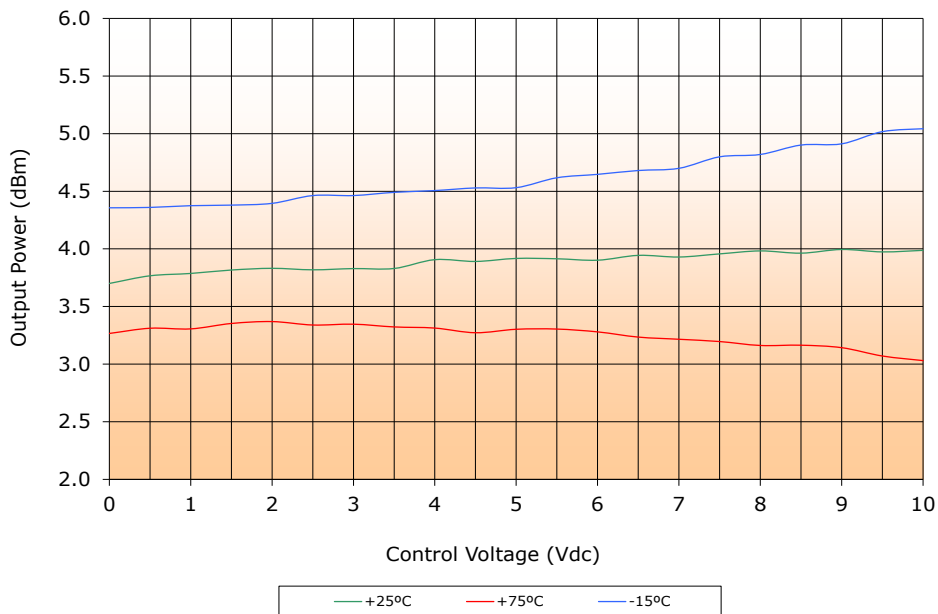
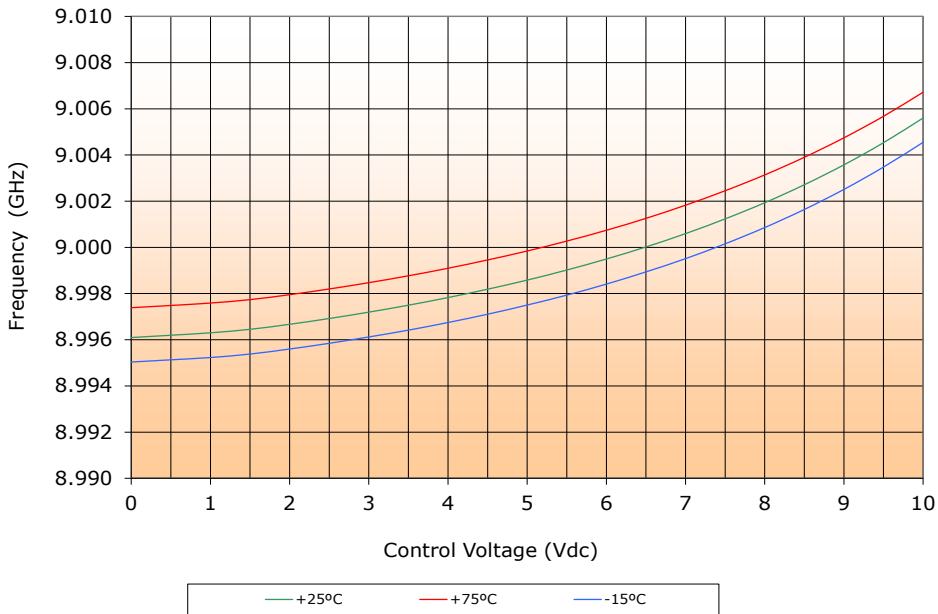


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PERFORMANCE PLOTS

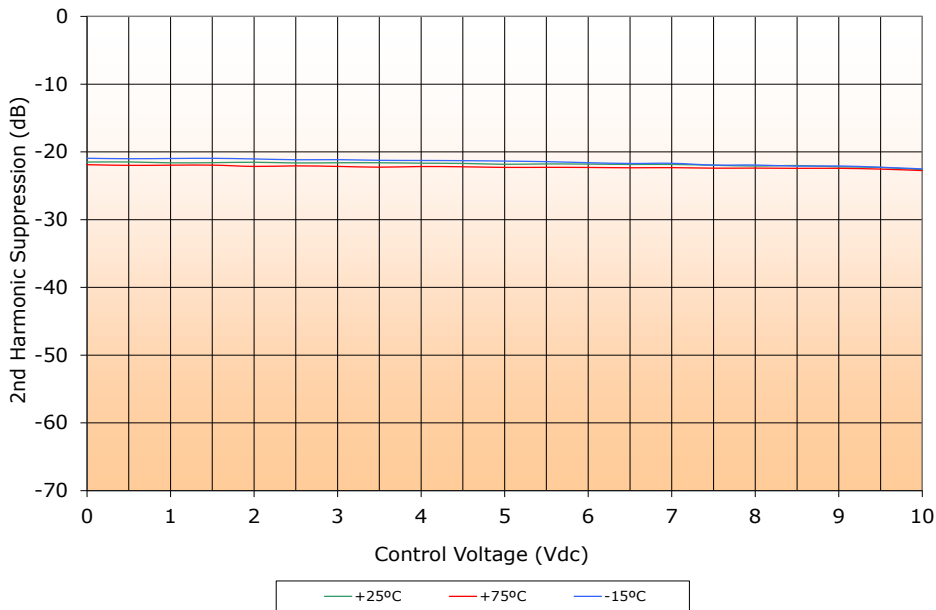
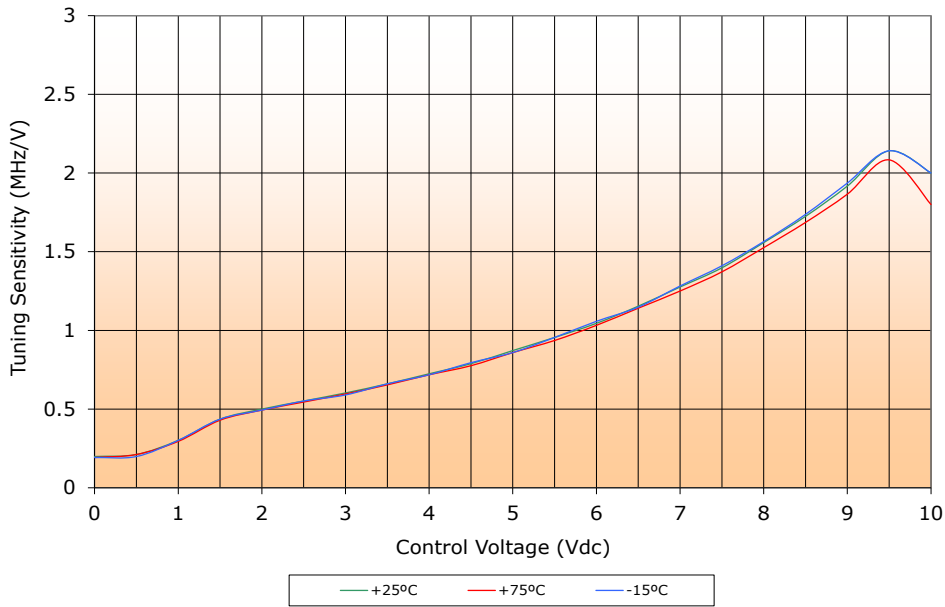


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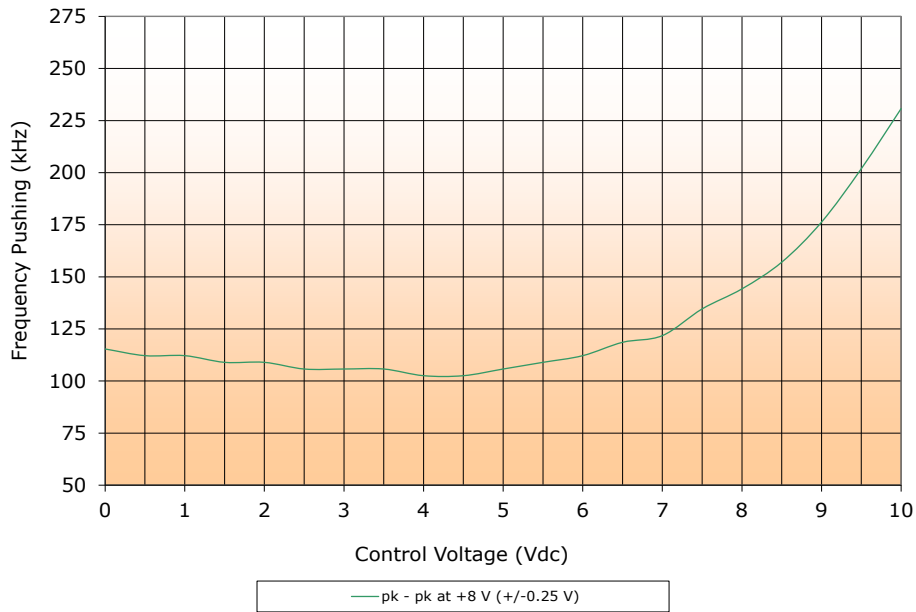
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