

# DIELECTRIC RESONATOR OSCILLATOR

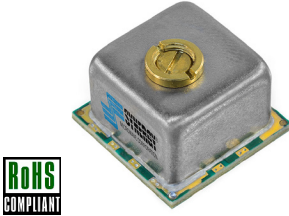
## SURFACE MOUNT MODEL: SDRO920-8

### FREQUENCY

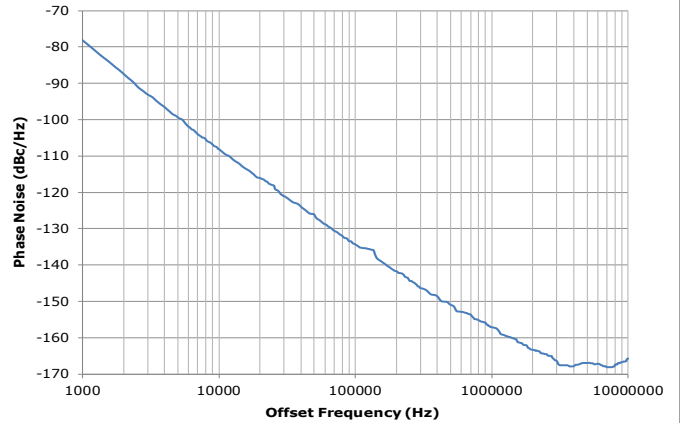
### 9.20 GHz

#### FEATURES:

- ▶ Extended Operating Temperature Range
- ▶ Exceptional Phase Noise Performance
- ▶ Small Size Surface Mount
- ▶ Lead Free RoHS Compliant



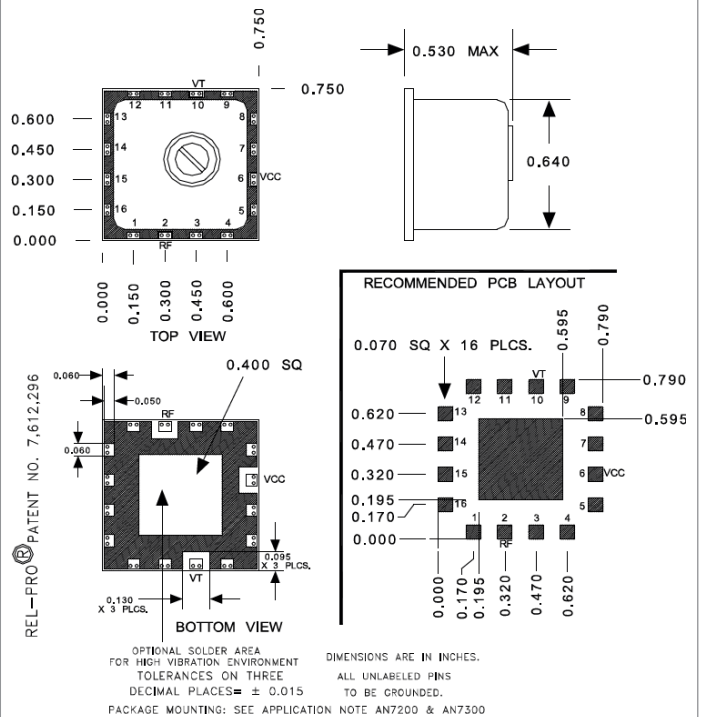
#### Phase Noise



#### SPECIFICATIONS

Frequency	9.20 GHz										
Tuning Voltage	1 - 10 VDC										
Bias Voltage	+8 VDC @ 25 mA (Max.)										
Output Power	0 dBm (Min.)										
Tuning Sensitivity	1 MHz/V (Typ.)										
Thermal Drift	0.30 ppm / °C (Typ.)										
Output Impedance	50 Ohms (Nom.)										
Harmonic Suppression	15 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>-108</td> </tr> <tr> <td>100 kHz</td> <td>-134</td> </tr> <tr> <td>1 MHz</td> <td>-156</td> </tr> <tr> <td>10 MHz</td> <td>-165</td> </tr> </tbody> </table>	Offset	dBc/Hz (Typ.)	10 kHz	-108	100 kHz	-134	1 MHz	-156	10 MHz	-165
	Offset	dBc/Hz (Typ.)									
	10 kHz	-108									
	100 kHz	-134									
1 MHz	-156										
10 MHz	-165										
Operating Temperature Range	-15 to +75 °C										

Package # 396



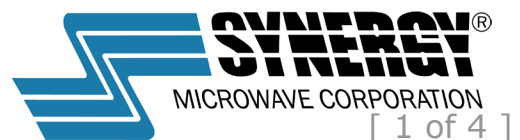
#### Absolute Maximum Ratings

Storage Temp. Range	-40 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 9.2 GHz.

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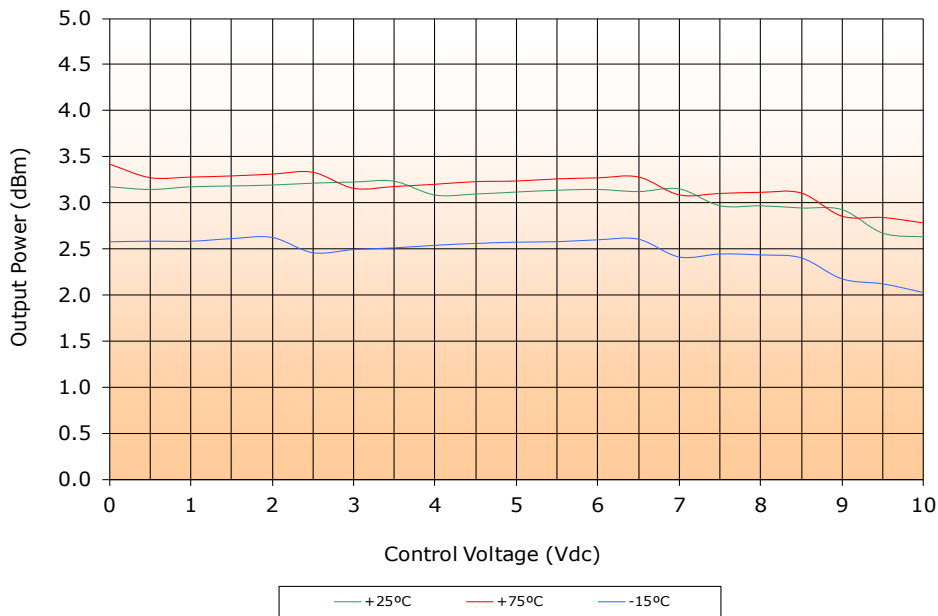
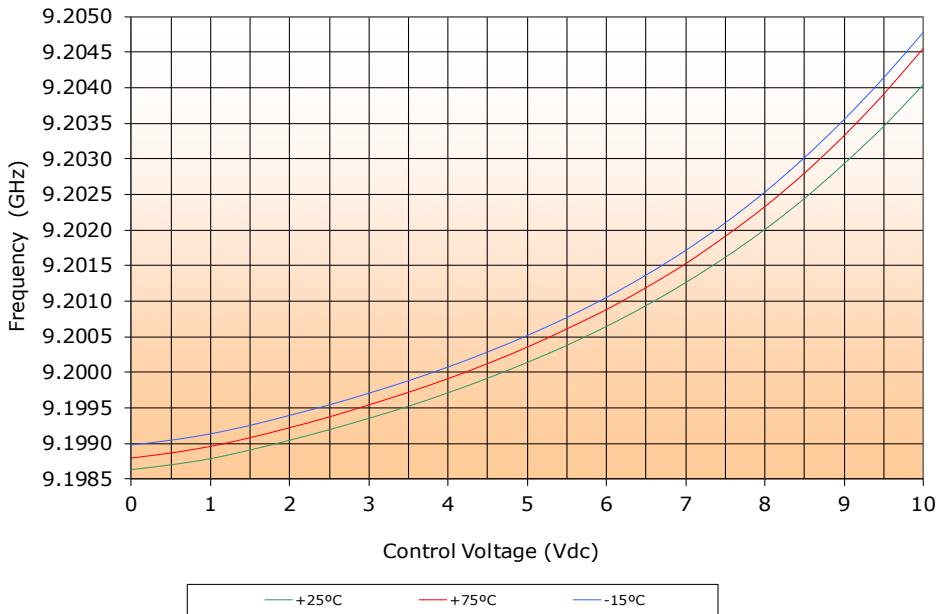


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PERFORMANCE PLOTS

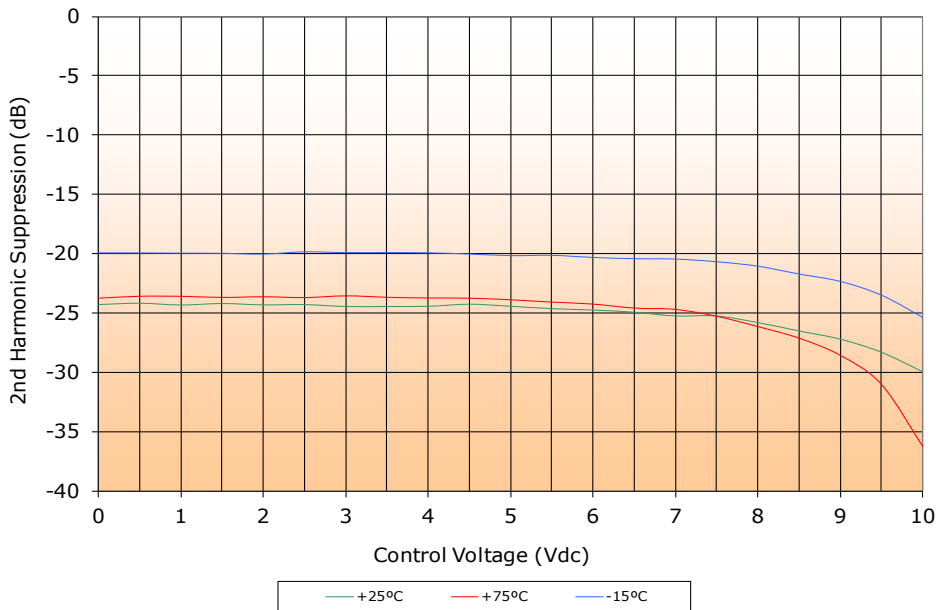
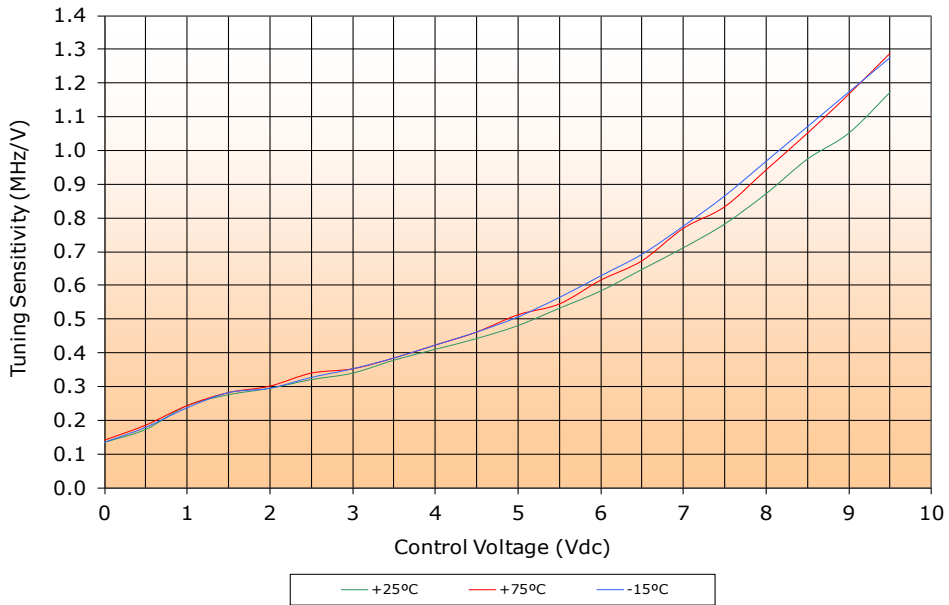


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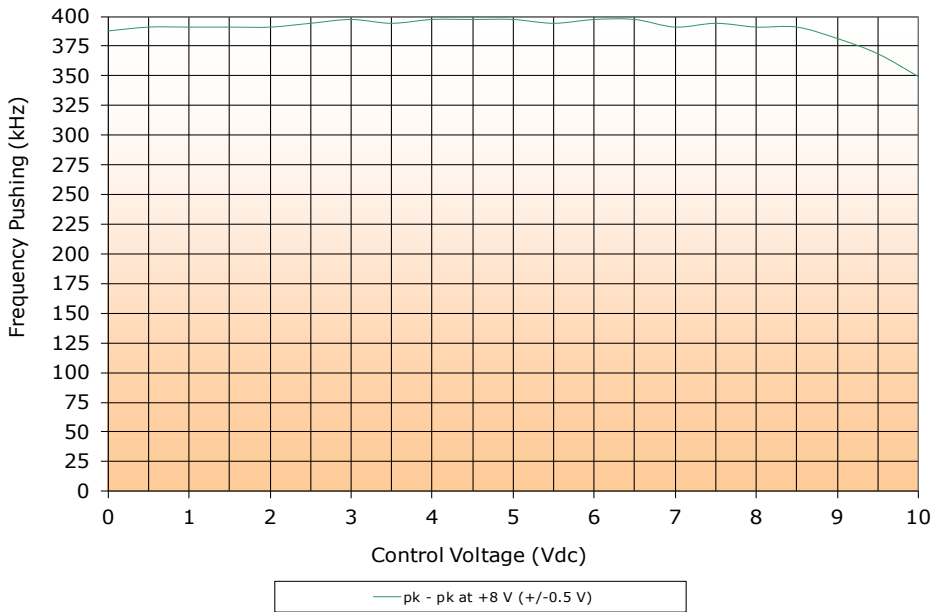
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