

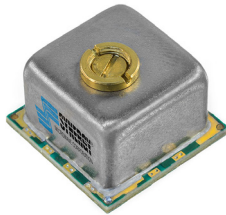
# DIELECTRIC RESONATOR OSCILLATOR SURFACE MOUNT MODEL: SDR01134-7

## FREQUENCY

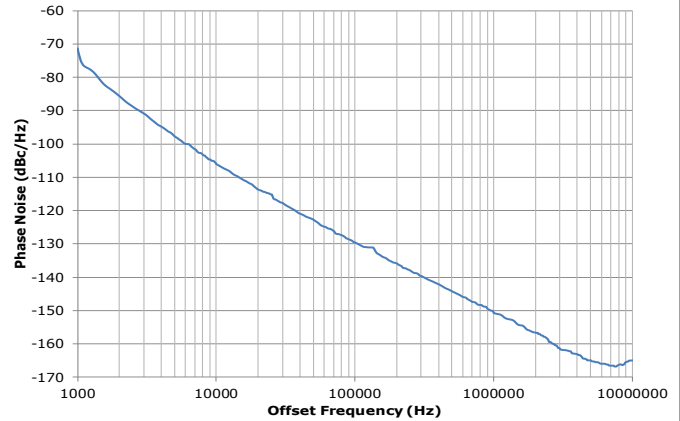
## 11.340 GHz

### FEATURES:

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



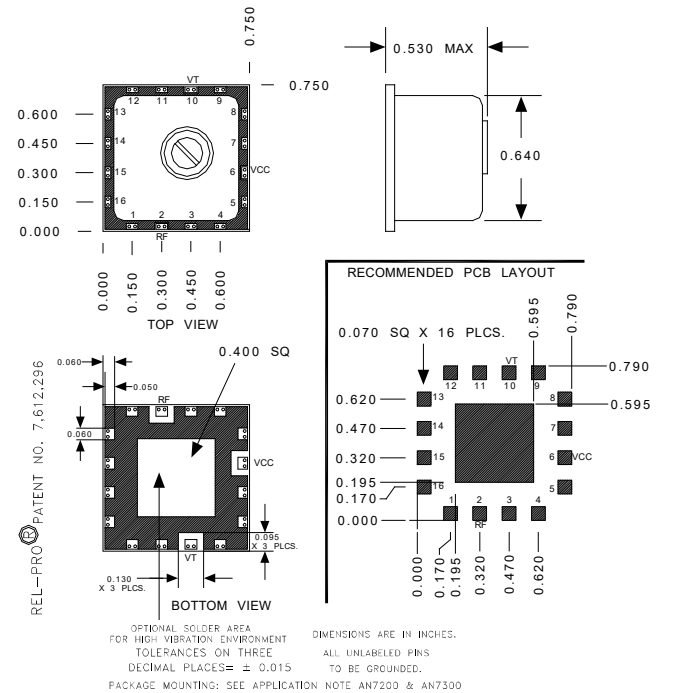
### Phase Noise



### SPECIFICATIONS

Frequency	11.340 GHz								
Tuning Voltage	1 - 12 VDC								
Bias Voltage	+7 VDC @ 25 mA (Max.)								
Output Power	0 dBm (Min.)								
Tuning Sensitivity	0.35 MHz/V (Typ.)								
Thermal Drift	2 ppm / °C (Typ.)								
Output Impedance	50 Ohms (Nom.)								
Harmonic Suppression	30 dBc (Typ.)								
Frequency Pulling	1.2 MHz (Typ. @ 1.75:1 VSWR)								
Frequency Pushing	1.6 MHz/V (Typ.)								
Tuning Port Capacitance	35 pF (Typ.)								
Modulation Bandwidth	> 20 MHz								
Phase Noise	<table border="1"> <thead> <tr> <th>Offset</th> <th>dBc/Hz (Typ.)</th> </tr> </thead> <tbody> <tr> <td>10 kHz</td> <td>-107</td> </tr> <tr> <td>100 kHz</td> <td>-126</td> </tr> <tr> <td>1 MHz</td> <td>-146</td> </tr> </tbody> </table>	Offset	dBc/Hz (Typ.)	10 kHz	-107	100 kHz	-126	1 MHz	-146
	Offset	dBc/Hz (Typ.)							
	10 kHz	-107							
	100 kHz	-126							
1 MHz	-146								
Jitter	76 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	+7.5 V
Tuning Voltage	+16 V
DC Voltage Applied to RF Out	±25 V

### Notes:

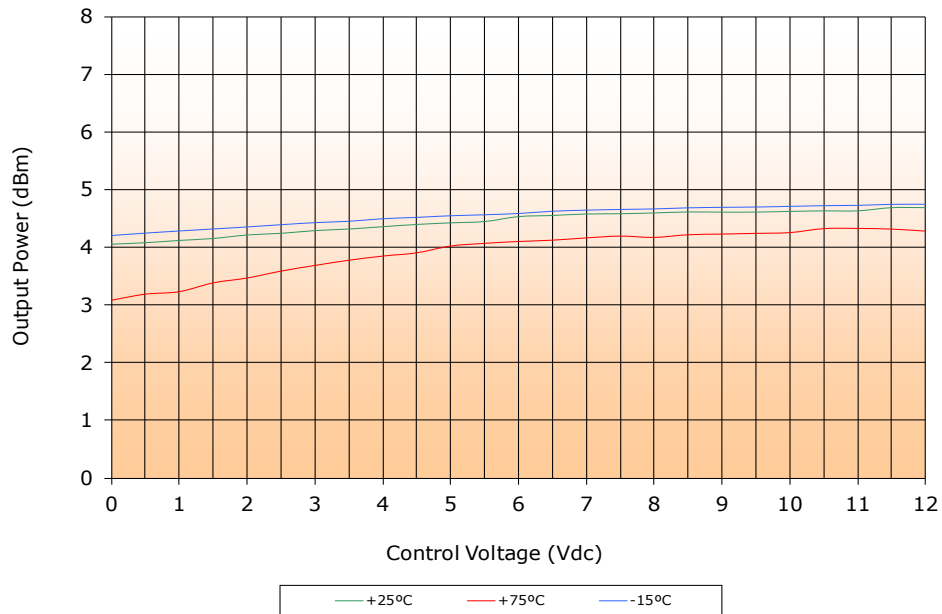
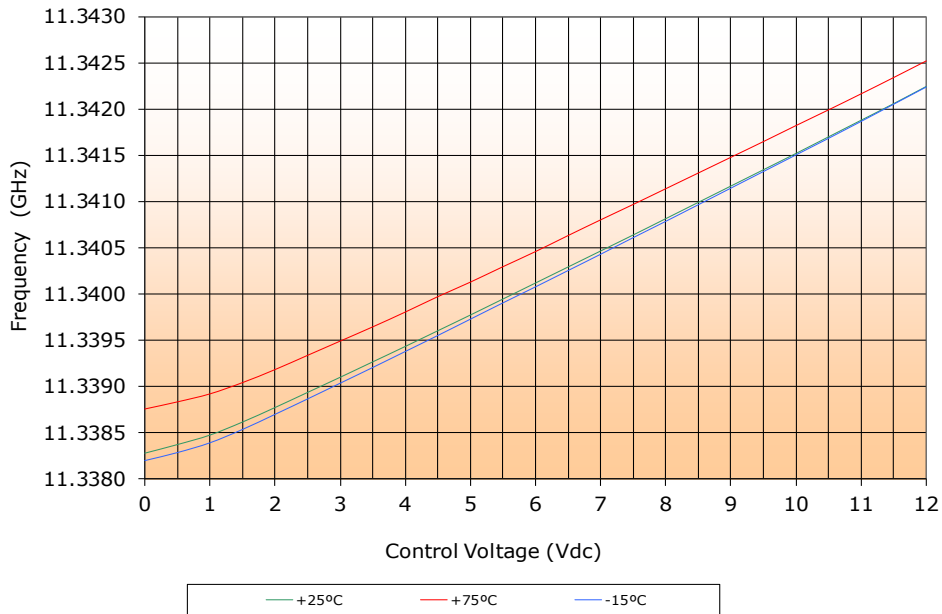
1. Tuning of the mechanical screw can cause significant shifts in frequency and cause irreversible damage to the product. Warranty is void if tuning screw exceeds ±0.5 turn max.
2. Test data measured with bias voltage at +8V.
3. Specifications guaranteed at 11.340 GHz.

# DIELECTRIC RESONATOR OSCILLATOR SURFACE MOUNT MODEL: SDRO1134-7

FREQUENCY

11.340 GHz

PERFORMANCE PLOTS



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