

# DIELECTRIC RESONATOR OSCILLATOR

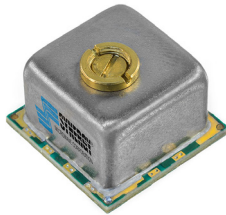
## SURFACE MOUNT MODEL: SDR01130-7

### FREQUENCY

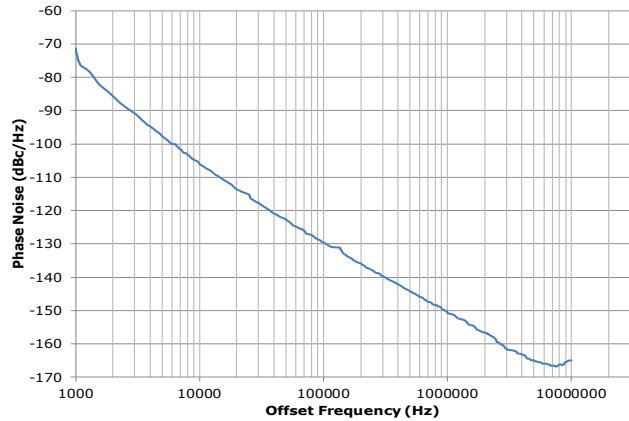
### 11.303 GHz

#### FEATURES:

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



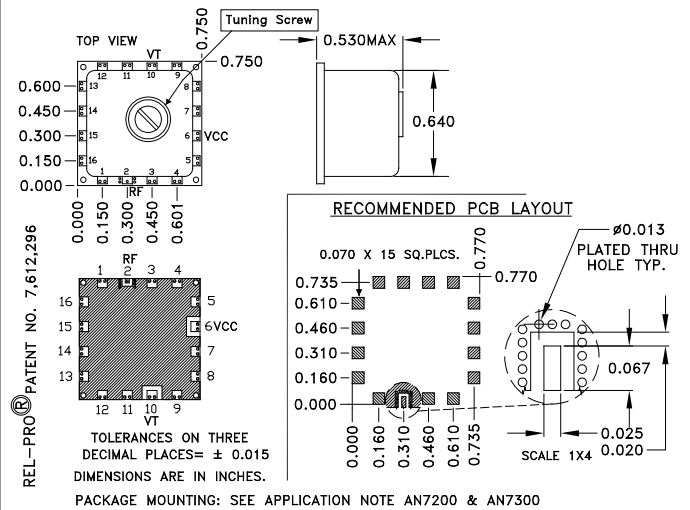
#### Phase Noise



#### SPECIFICATIONS (Rev. A 11/06/24)

Frequency	11.303 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	Offset	dBc/Hz (Typ.)
	10 kHz	-106
	100 kHz	-130
	1 MHz	-150
Jitter	93 fs (@ 1 kHz to 30 MHz) (Typ.)	
Operating Temperature Range	-15 to +75°C	

Package # 396-1



#### 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:

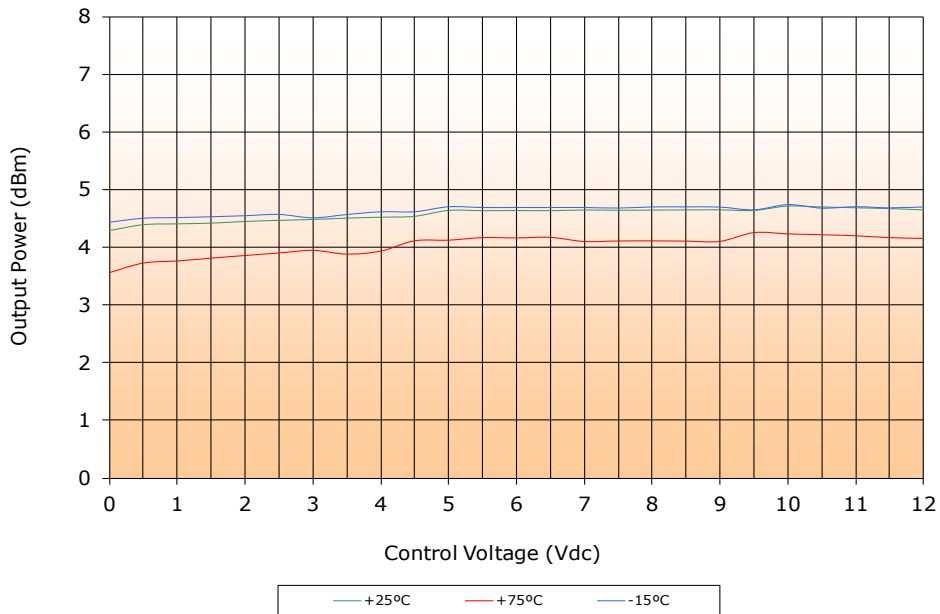
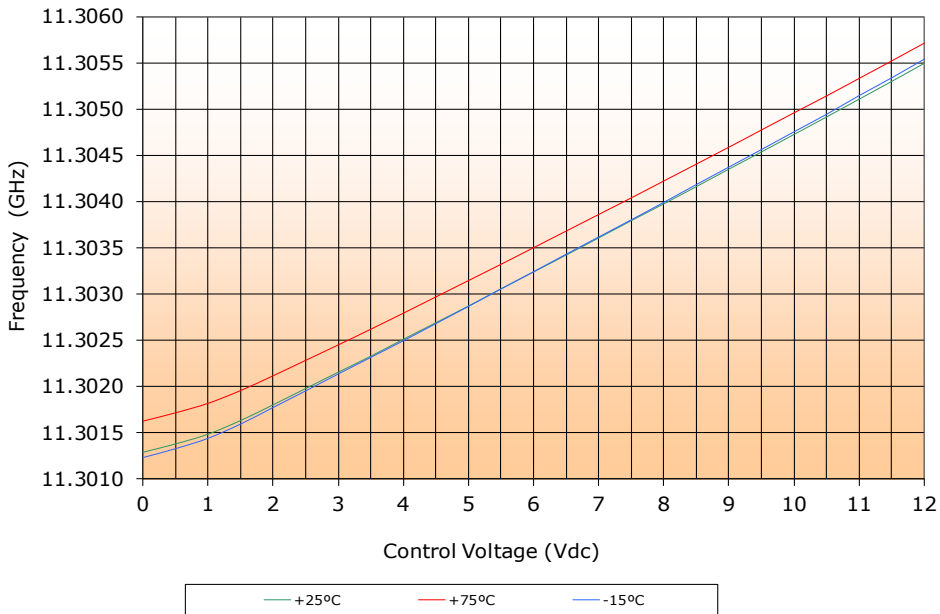
1. Tuning of the mechanical screw can cause significant shifts in frequency and cause irreversible damage to the product. Warranty is void if tuning screw exceeds ±0.5 turn max.
2. Test data measured with bias voltage at +8V.
3. Specifications guaranteed at 11.303 GHz.

# DIELECTRIC RESONATOR OSCILLATOR SURFACE MOUNT MODEL: SDRO1130-7

FREQUENCY

11.303 GHz

PERFORMANCE PLOTS



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11.303 GHz

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