

# DIELECTRIC RESONATOR OSCILLATOR

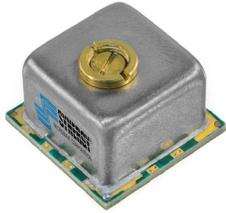
## SURFACE MOUNT MODEL: GSDRO1200-8XT

### FREQUENCY

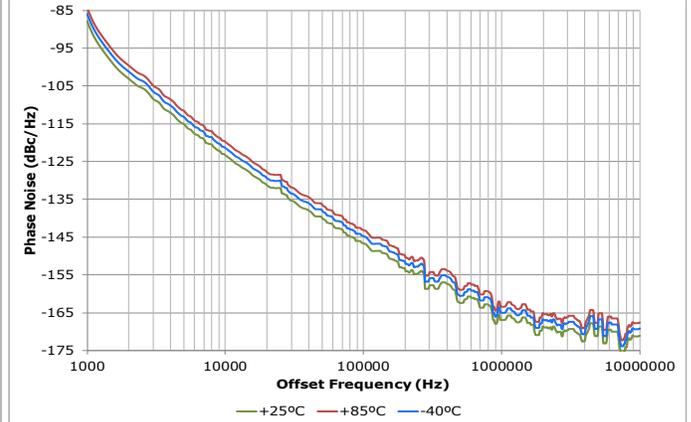
### 12 GHz

#### FEATURES:

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



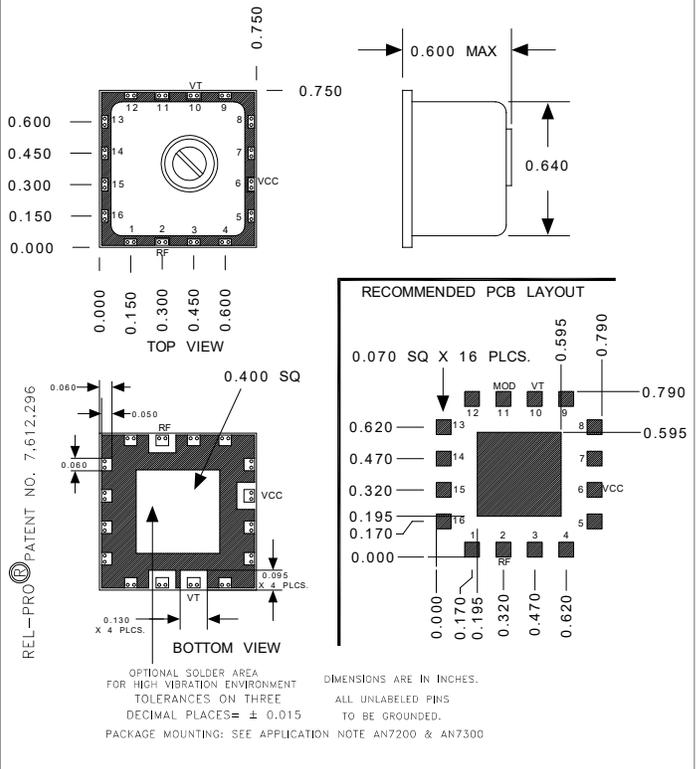
#### Phase Noise



#### SPECIFICATIONS (Rev. A 11/16/23)

Frequency	12 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	1.28 ppm / °C (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	26 dBc (Typ.)	
Frequency Pulling	190 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	120 kHz/V (Typ.)	
Tuning Port Capacitance	15 pF (Typ.)	
Phase Noise @ 25°C	Offset	dBc/Hz (Typ.)
	10 kHz	-123
	100 kHz	-146
	1 MHz	-164
Operating Temperature Range	-40 to +85 °C	

Package # 396-5



#### Absolute Maximum Ratings

Storage Temp. Range	-45 to +90 °C
Bias Voltage	+8.5 V
Tuning Voltage	+17 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 12 GHz.

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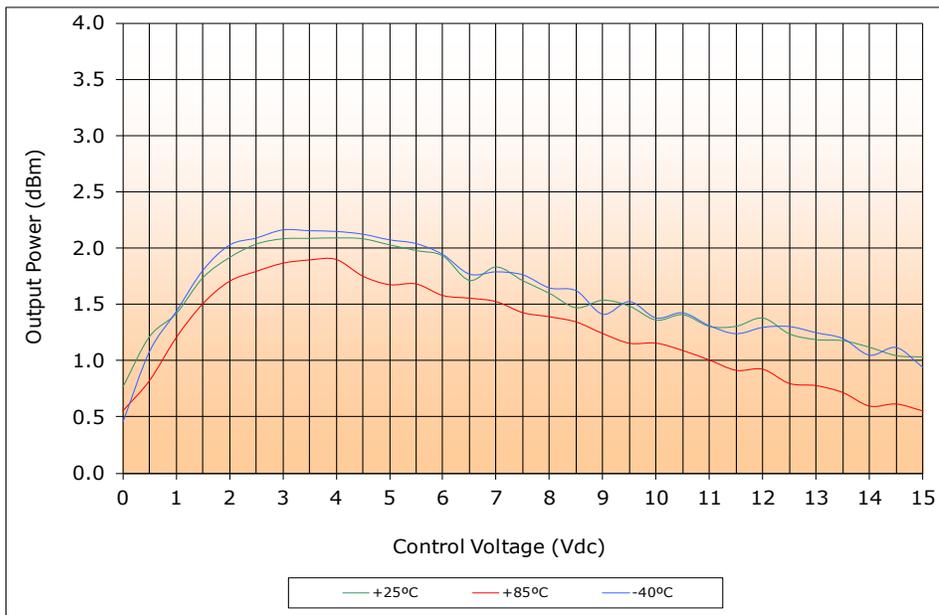
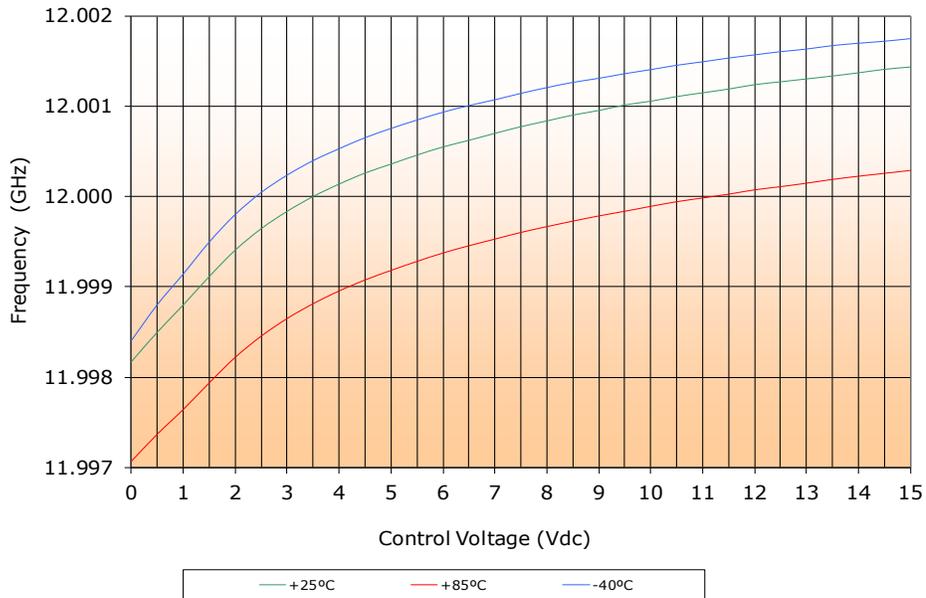


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PERFORMANCE PLOTS

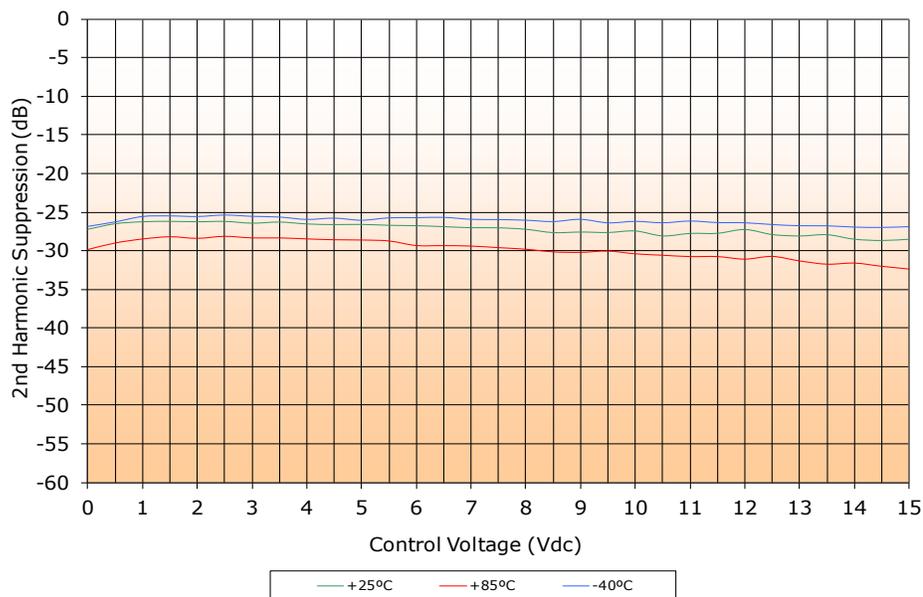
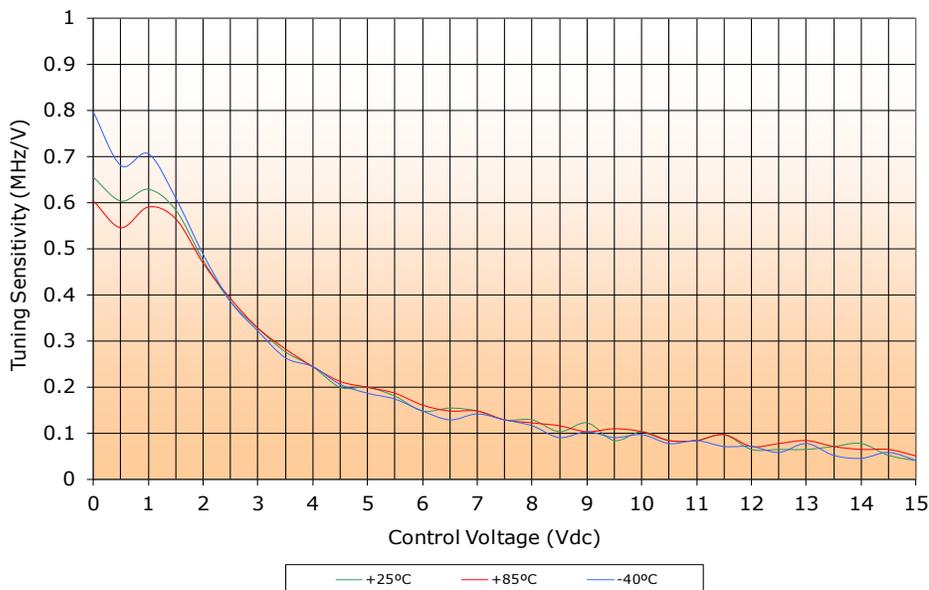


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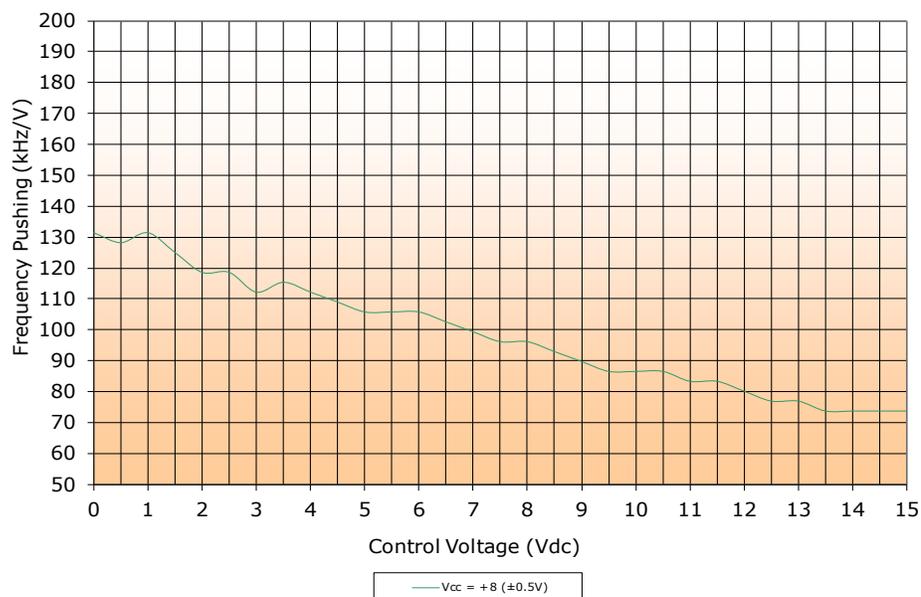
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