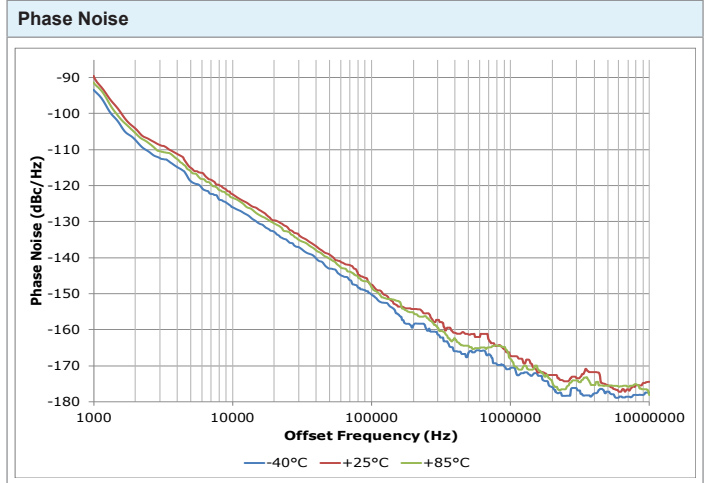
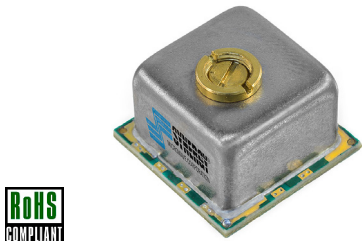


FREQUENCY

8.80 GHz

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



Frequency	8.80 GHz	
Tuning Voltage	1 - 12 VDC	
Bias Voltage	+8 VDC @ 30 mA (Max.)	
Output Power	+3 dBm (Min.)	
Tuning Sensitivity	0.25 MHz/V (Typ.)	
Thermal Drift	0.9 ppm / °C (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	26 dBc (Typ.)	
Frequency Pulling	5 kHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	50 kHz/V (Typ.)	
Tuning Port Capacitance	10 pF (Typ.)	
Phase Noise @ 25°C	Offset	dBc/Hz (Typ.)
	1 kHz	-92
	10 kHz	-123
	100 kHz	-148
	1 MHz	-166
	10 MHz	-175
Operating Temperature Range	-40 to +85 °C	

Storage Temp. Range	-45 to +90 °C
Bias Voltage	+8.5 V
Tuning Voltage	+16 V
DC Voltage Applied to RF Out	±25 V

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 8.8 GHz.

REL-PRO® PATENT NO. 7,612,296

OPTIONAL SOLDER AREA
FOR HIGH VIBRATION ENVIRONMENT
TOLERANCES ON THREE
DECIMAL PLACES = ± 0.015
PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

DIMENSIONS ARE IN INCHES.
ALL UNLABELED PINS
TO BE GROUNDED.

Figure 1: Recommended PCB layout for the AN7200. The figure includes three diagrams: a top view of the package, a bottom view, and a recommended PCB layout. The top view shows a square package with pins 1-16 and labels VT, RF, VCC, and HP. The bottom view shows the underside with pins 1-16 and labels RF, VCC, and VT. The recommended PCB layout shows a square pad with pins 1-16 and labels VT, RF, VCC, and HP. Dimensions are in inches.

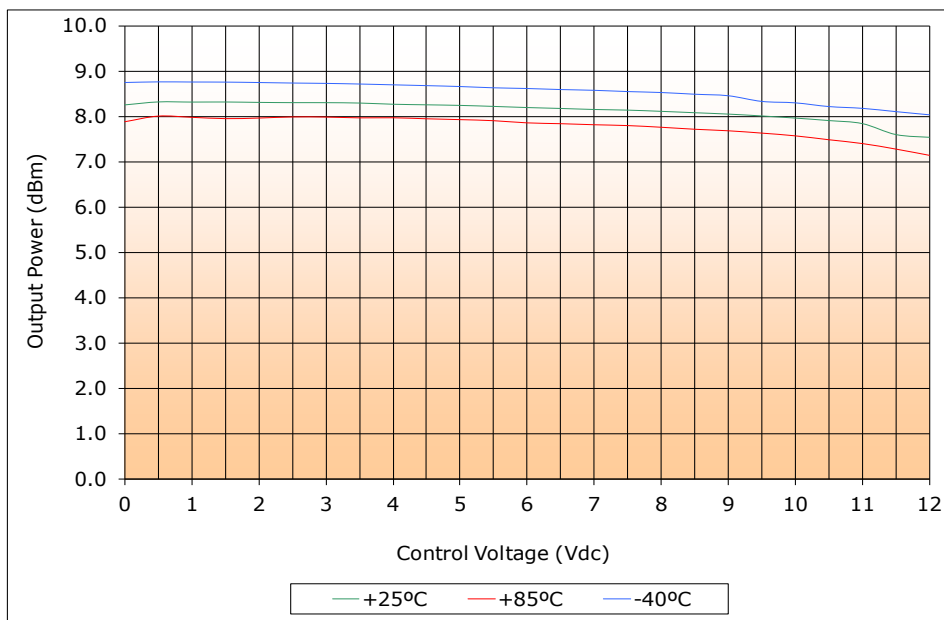
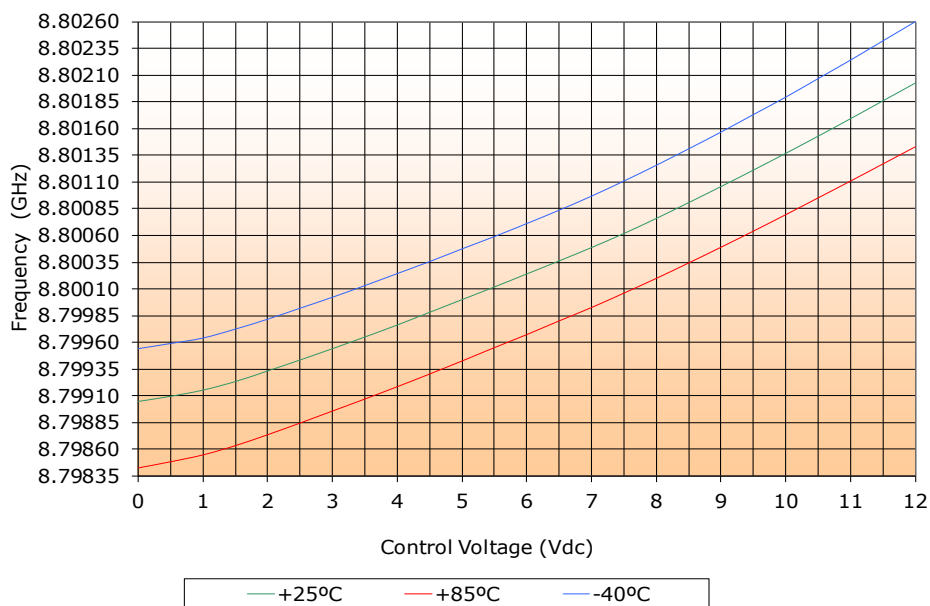
DIELECTRIC RESONATOR OSCILLATOR

SURFACE MOUNT MODEL: GSDRO880-8XT

FREQUENCY

8.80 GHz

PERFORMANCE PLOTS



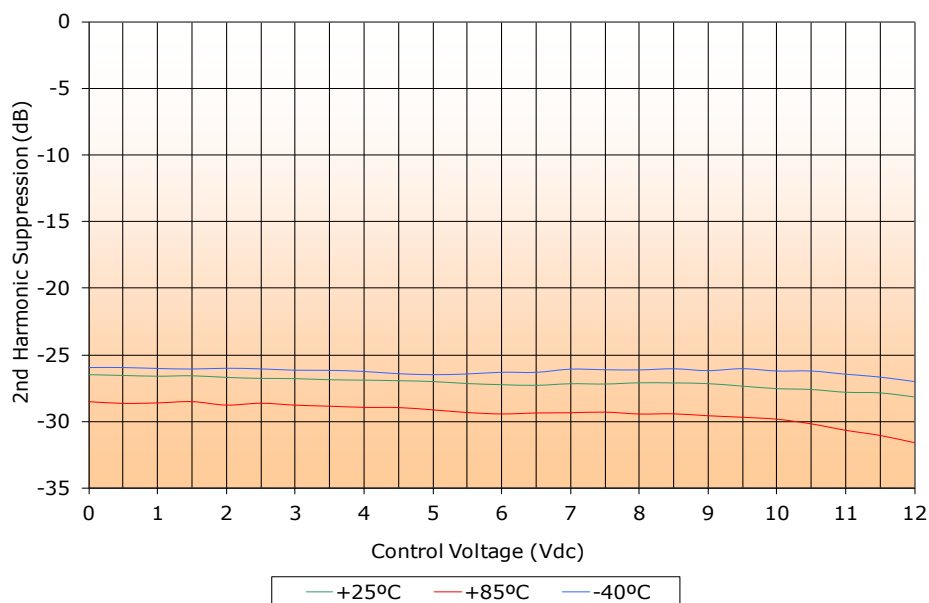
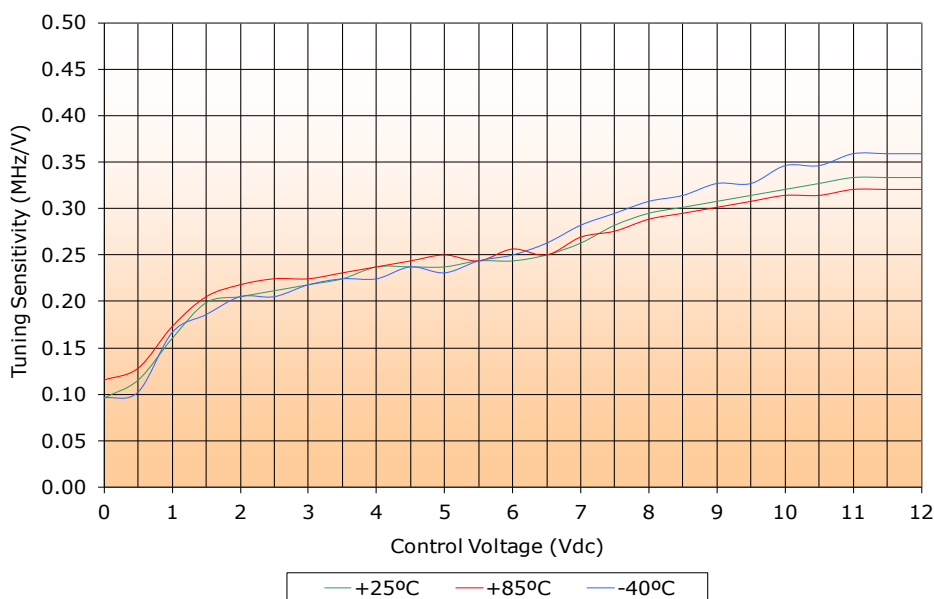
DIELECTRIC RESONATOR OSCILLATOR

SURFACE MOUNT MODEL: GSDRO880-8XT

FREQUENCY

8.80 GHz

PERFORMANCE PLOTS

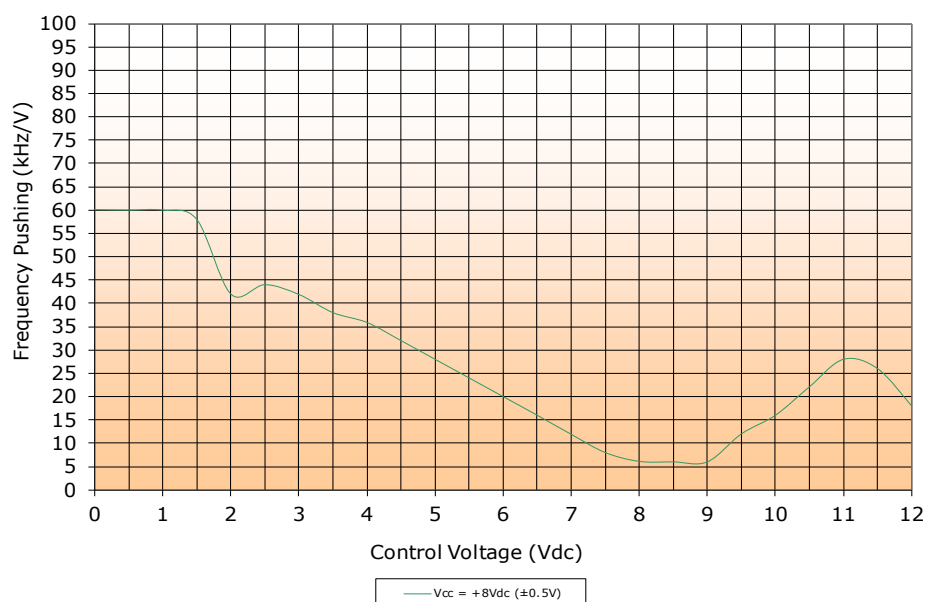


DIELECTRIC RESONATOR OSCILLATOR

SURFACE MOUNT MODEL: GSDRO880-8XT

FREQUENCY

8.80 GHz



PERFORMANCE PLOTS