

VOLTAGE CONTROLLED OSCILLATOR

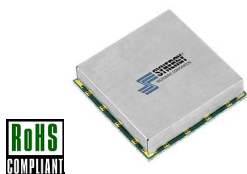
SURFACE MOUNT MODEL: DCSR4000-8

OPTIMIZED FREQUENCY

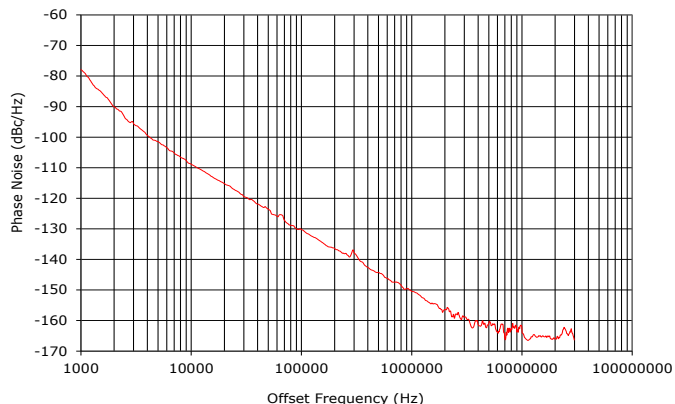
4000 MHz

FEATURES:

- ▶ Optimized Tuning Frequency Band
- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free Patented REL-PRO® Technology
- ▶ Planar Resonator Construction



Phase Noise



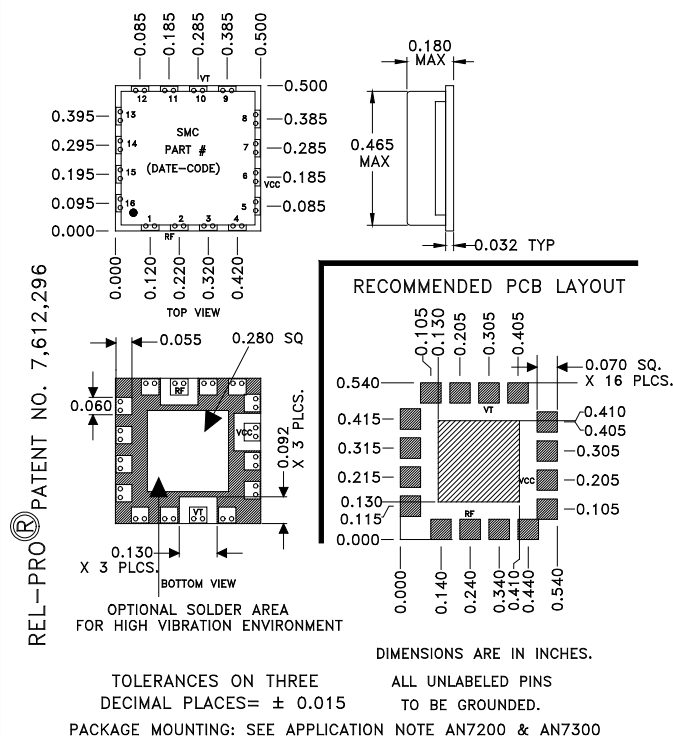
SPECIFICATIONS

Frequency	4000 MHz
Tuning Voltage	0.5 - 8 VDC
Bias Voltage	+8 VDC @ 32 mA (Max.)
Output Power	+4.5 dBm (Min.)
Tuning Sensitivity	6 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	18 dB (Typ.)
Frequency Pulling	5 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	0.4 MHz/V (Typ.)
Tuning Port Capacitance	42 pF (Typ.)
Phase Noise @ 10 kHz	-109 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+6.0 V
DC Voltage Applied to RF Out	± 25 V

Package # 278LF



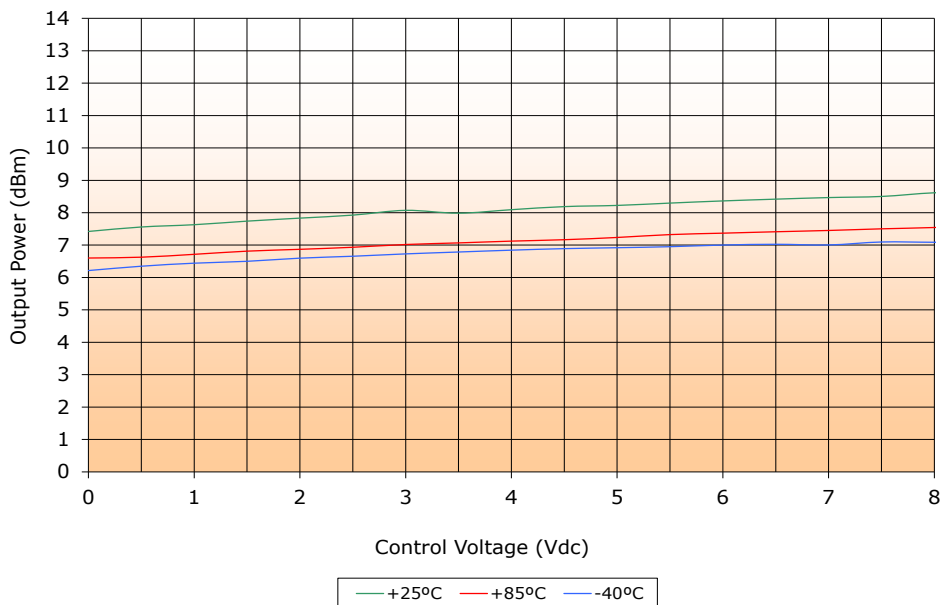
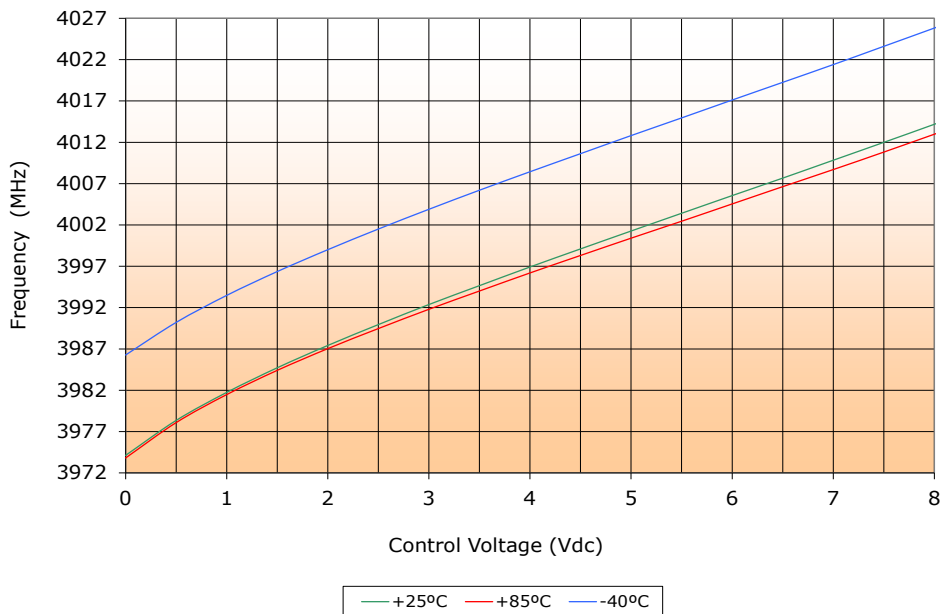
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PERFORMANCE PLOTS



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