

VOLTAGE CONTROLLED OSCILLATOR

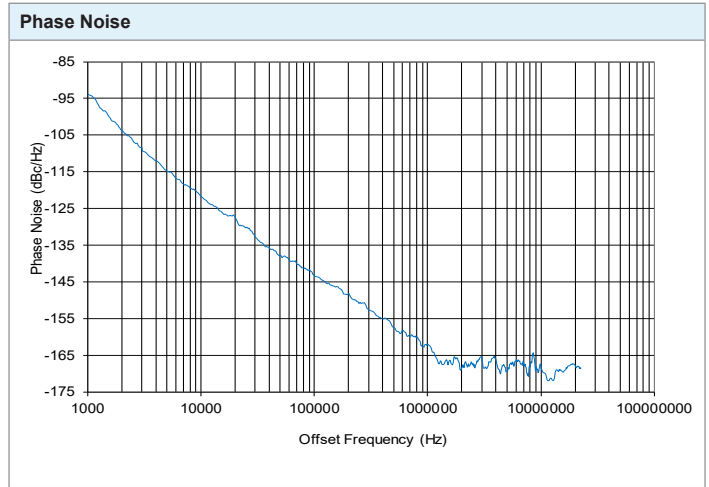
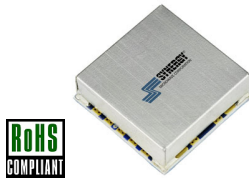
SURFACE MOUNT MODEL: DCSO1200-12

OPTIMIZED FREQUENCY

1200 MHz

FEATURES:

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



SPECIFICATIONS (REV. C 10/29/19)

Frequency	1200 MHz
Tuning Voltage	0.5 - 12 VDC
Bias Voltage	+12 VDC @ 45 mA (Max.)
Output Power	+3 dBm (Min.)
Tuning Sensitivity	1 - 2 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	-35 dB (Typ.)
Frequency Pulling	0.68 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	0.03 MHz/V (Typ.)
Tuning Port Capacitance	55 pF (Typ.)
Phase Noise @ 10 kHz	-122 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Package # 249LF

REL-PRO® PAT.# 7,612,296

RECOMMENDED PCB LAYOUT

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

PORT CONFIGURATION				
Tuning Voltage	RF Output	DC Supply Input	No Connection	All Others
2	9	11	4	Ground

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+12.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

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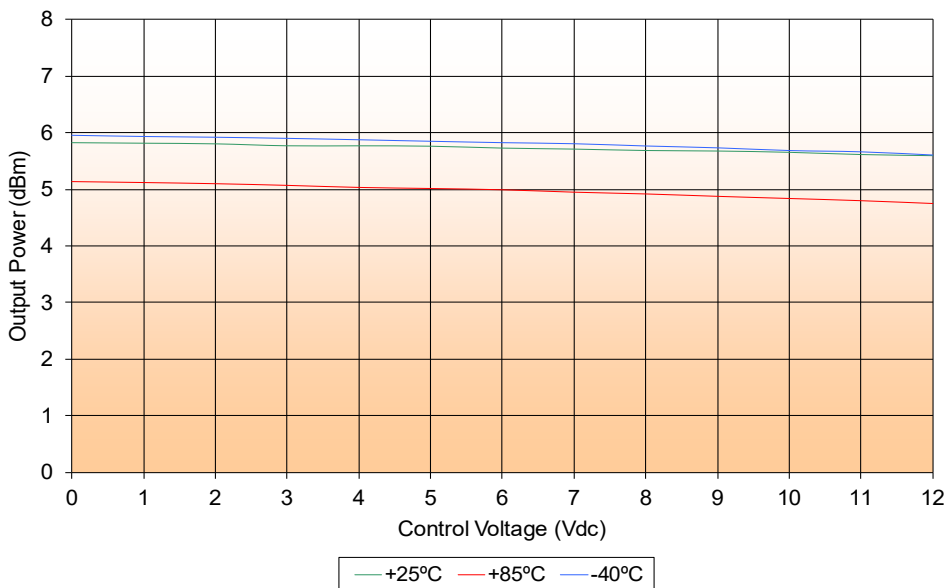
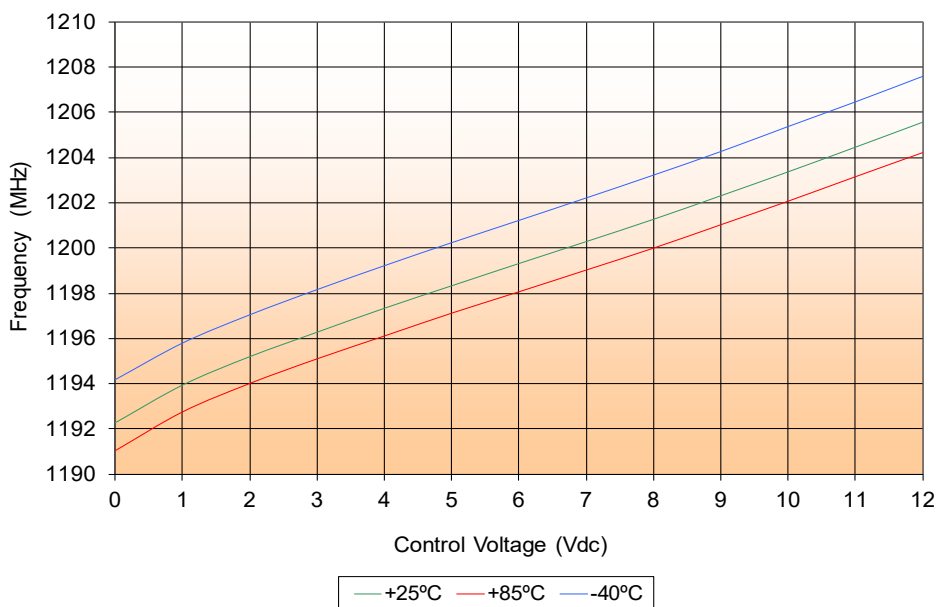
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PERFORMANCE PLOTS



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