

VOLTAGE CONTROLLED OSCILLATOR

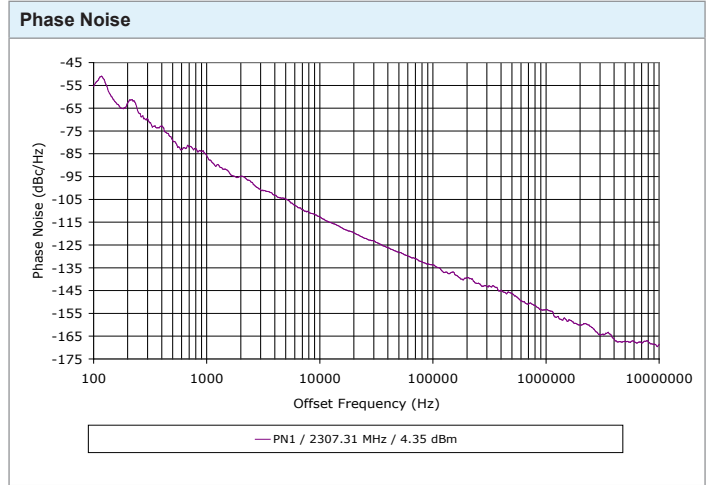
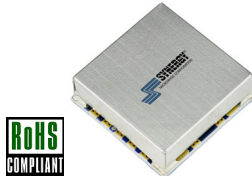
SURFACE MOUNT MODEL: DCSO2308-10

OPTIMIZED FREQUENCY

2307.8125 MHz

FEATURES:

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



SPECIFICATIONS (Rev. C 09/10/08)

Frequency	2307.8125 MHz
Tuning Voltage	0.5 - 10 VDC
Bias Voltage	+10 VDC @ 50 mA (Max.)
Output Power	+2 dBm (Min.)
Tuning Sensitivity	1 - 2 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	42 dB (Typ.)
Frequency Pulling	1 MHz (Max. @ 1.75:1 VSWR)
Frequency Pushing	2 MHz/V (Max.)
Tuning Port Capacitance	44 pF (Typ.)
Phase Noise @ 10 kHz	-116 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Package # 249LF

Dimensions: 0.750, 0.165 MAX, 0.475, 0.275, 0.000, 0.000, 0.175, 0.275, 0.375, 0.475, 0.575, 0.058, 0.490 SQ., 0.060, 0.080 AT 16 PLCS., 0.060 AT 16 PLCS., 0.790, 0.640, 0.495, 0.295, 0.150, 0.000, 0.150, 0.195, 0.295, 0.395, 0.495, 0.595, 0.640, 0.790.

RECOMMENDED PCB LAYOUT

REL-PRO® PAT. # 7,612,296

OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

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	+10.5 V
Tuning Voltage	+12 V
DC Voltage Applied to RF Out	± 25 V

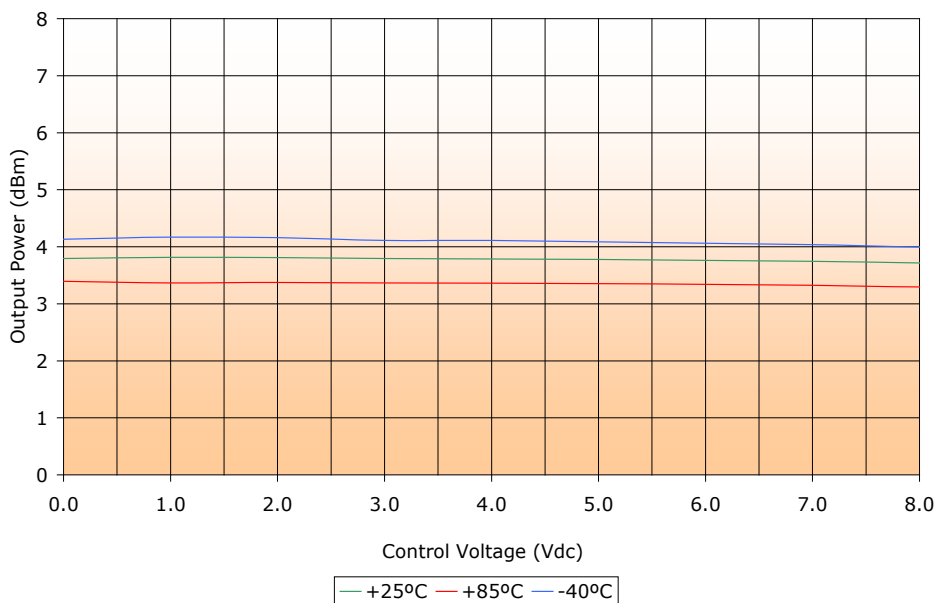
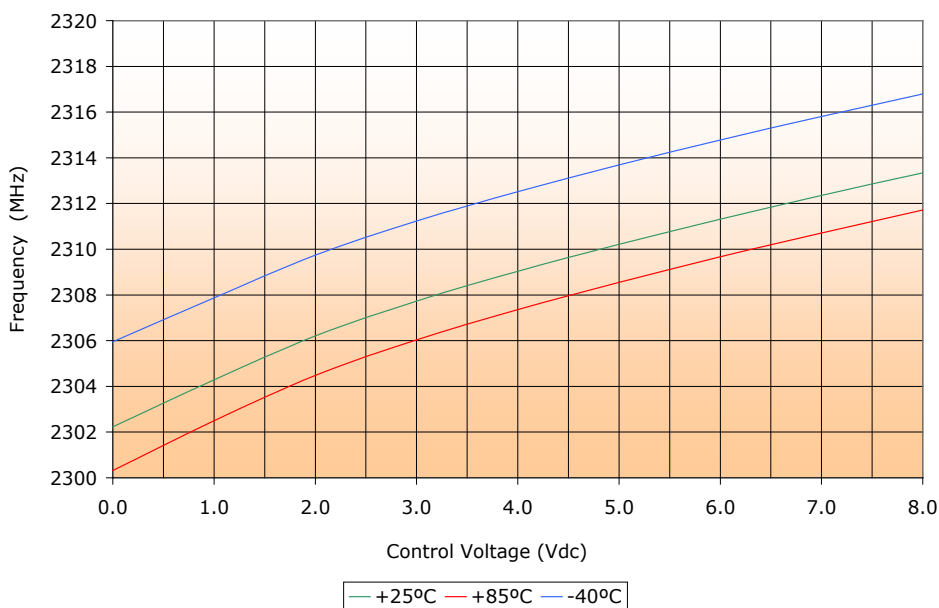
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