

DIELECTRIC RESONATOR OSCILLATOR

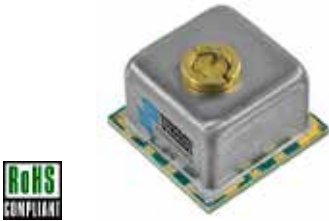
SURFACE MOUNT MODEL: SDRO840-8

FREQUENCY

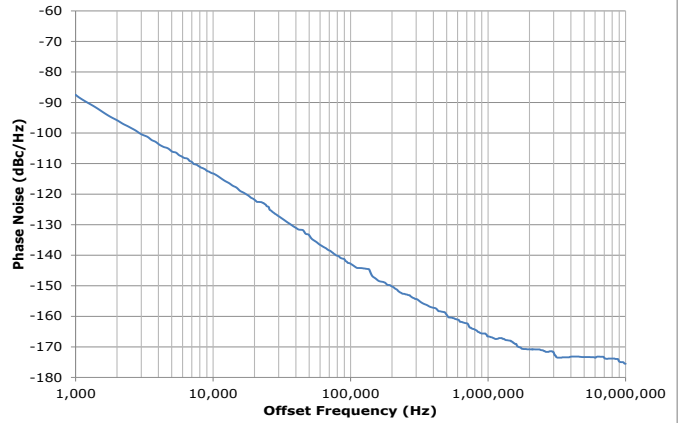
8.4 GHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size Surface Mount
- ▶ Lead Free RoHS Compliant



Phase Noise



SPECIFICATIONS

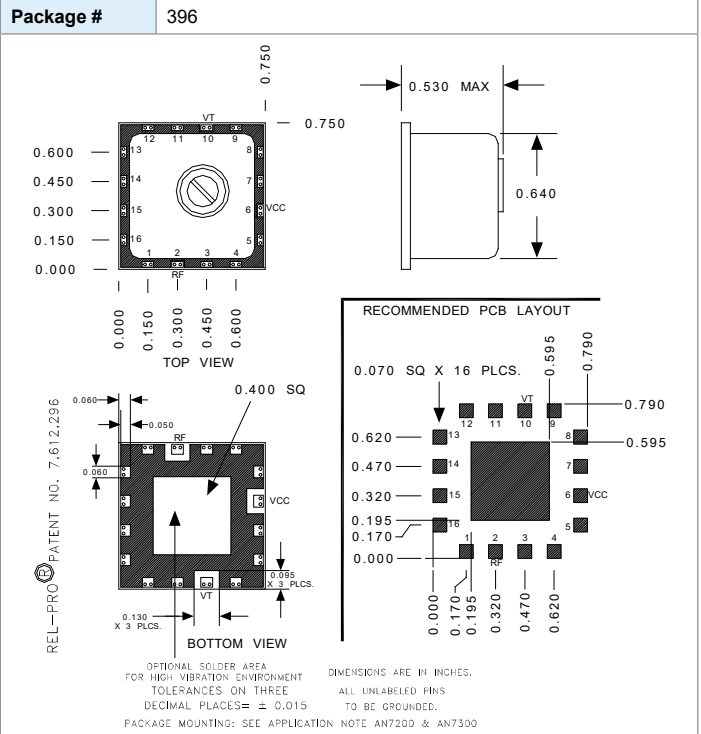
Frequency	8.4 GHz	
Tuning Voltage	1 - 10 VDC	
Bias Voltage	+8 VDC @ 25 mA (Max.)	
Output Power	+4 dBm (Min.)	
Tuning Sensitivity	1.5 MHz/V (Typ.)	
Thermal Drift	5 ppm / °C (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	20 dBc (Typ.)	
Frequency Pulling	1.2 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	600 kHz/V (Typ.)	
Phase Noise @ 25°C	Offset	dBc/Hz (Typ.)
	10 kHz	-114
	100 kHz	-134
	1 MHz	-160
	10 MHz	-170
Operating Temperature Range	-15 to +75 °C	

Absolute Maximum Ratings

Storage Temp. Range	-30 to +85 °C
Bias Voltage	+8.5 V
Tuning Voltage	+16 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.



Copyright © Synergy Microwave Corporation
 201 McLean Boulevard • Paterson, New Jersey 07504 USA
 Tel: (973) 881-8800 • Fax: (973) 881-8361
 E-Mail: sales@synergymwave.com • Website: <http://www.synergymwave.com>
 Patents : <http://www.synergymwave.com/patents>

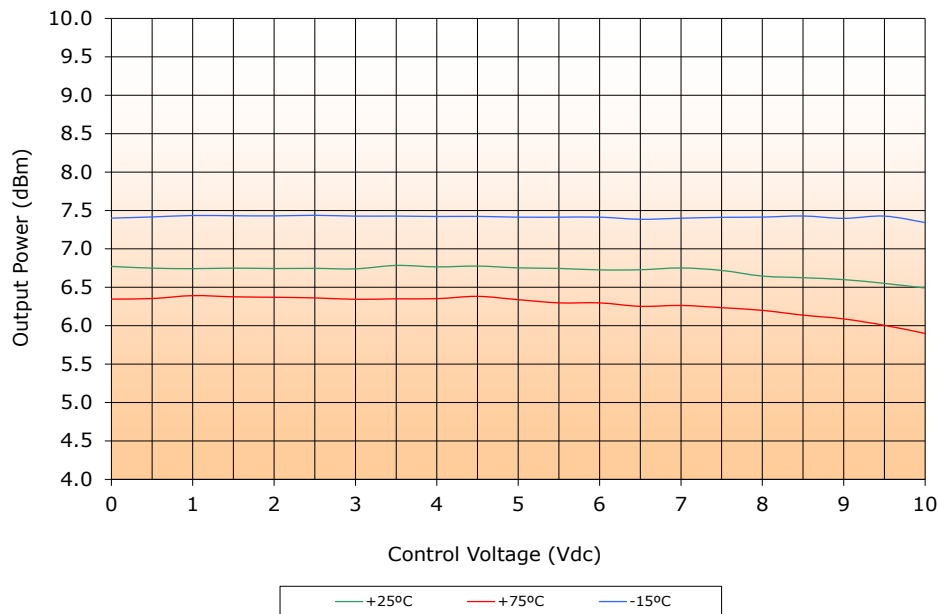
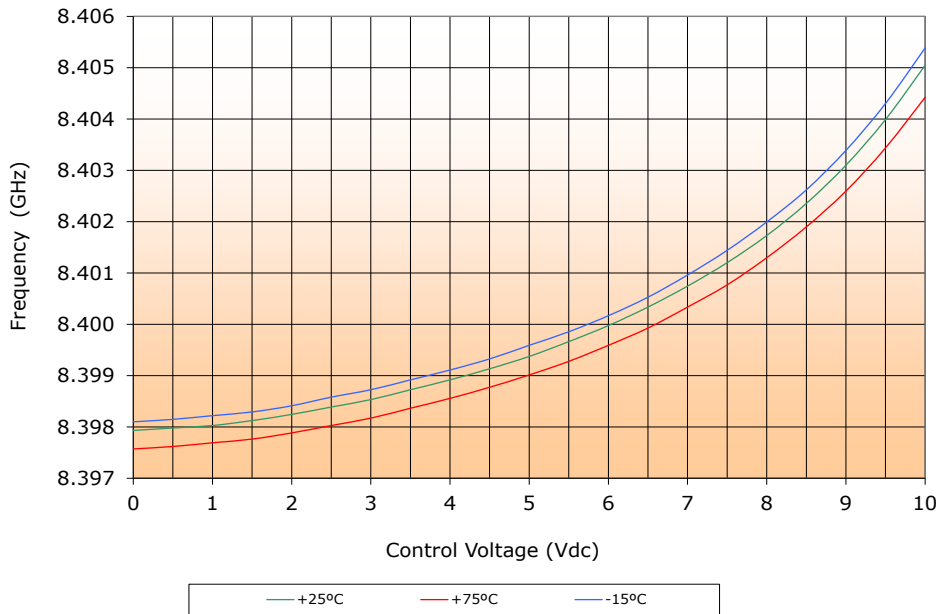


DIELECTRIC RESONATOR OSCILLATOR SURFACE MOUNT MODEL: SDRO840-8

FREQUENCY

8.4 GHz

PERFORMANCE PLOTS

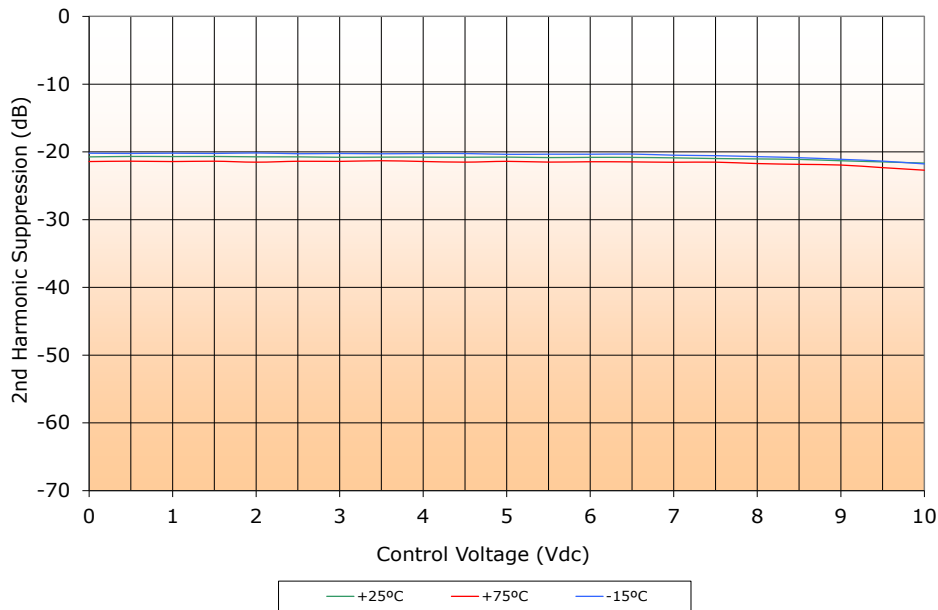
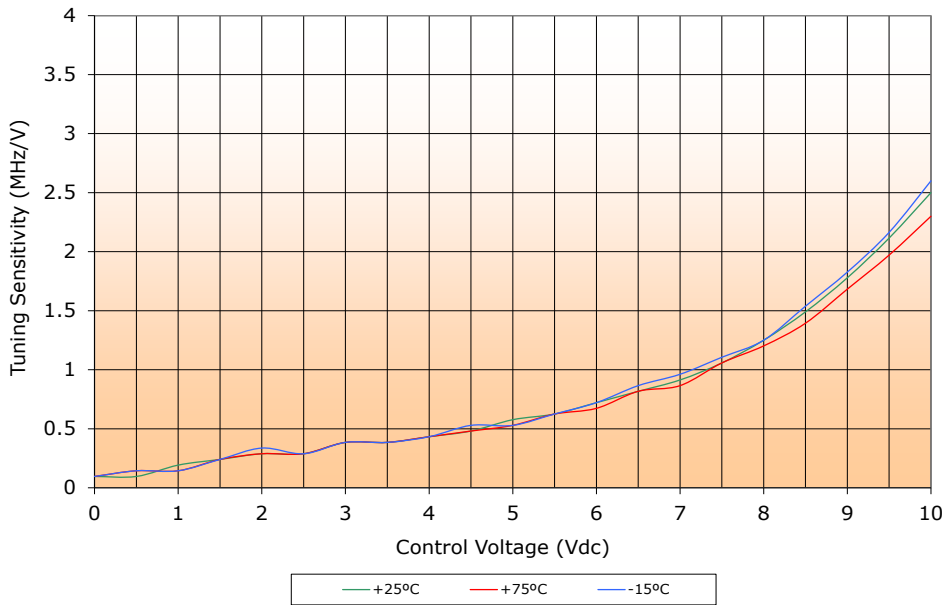


DIELECTRIC RESONATOR OSCILLATOR SURFACE MOUNT MODEL: SDRO840-8

FREQUENCY

8.4 GHz

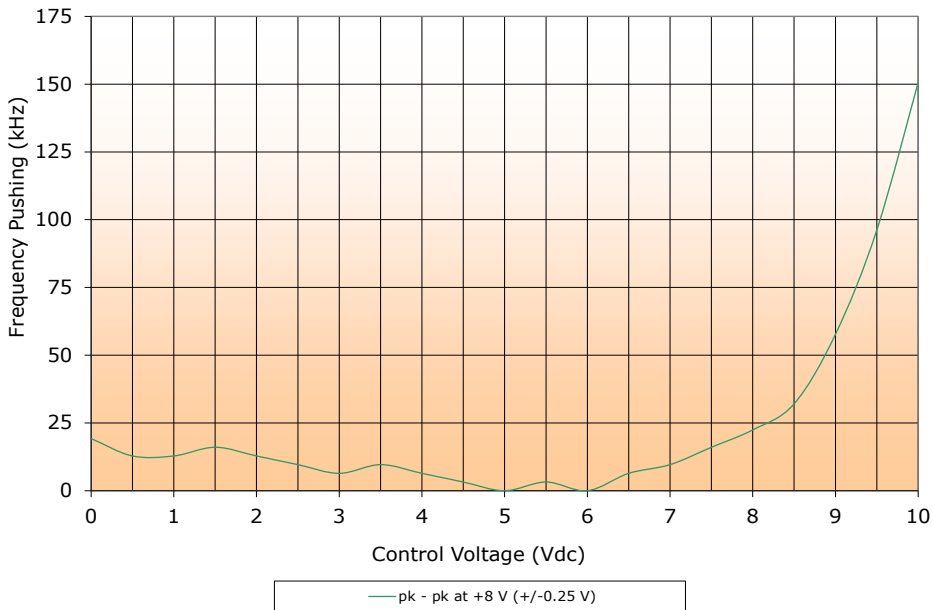
PERFORMANCE PLOTS



DIELECTRIC RESONATOR OSCILLATOR SURFACE MOUNT MODEL: SDRO840-8

FREQUENCY

8.4 GHz



PERFORMANCE PLOTS