

VOLTAGE CONTROLLED OSCILLATOR

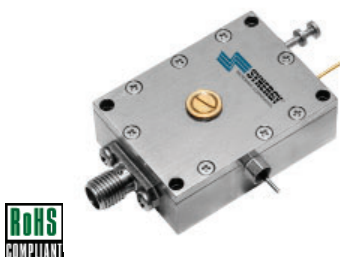
CONNECTORIZED MODEL: KDRO1000-8

OPTIMIZED FREQUENCY

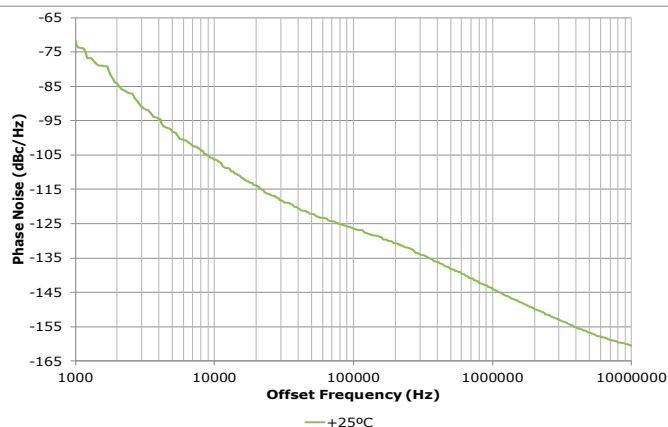
10 GHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Electronic & Mechanical Tuning
- ▶ Small Package



Phase Noise



SPECIFICATIONS

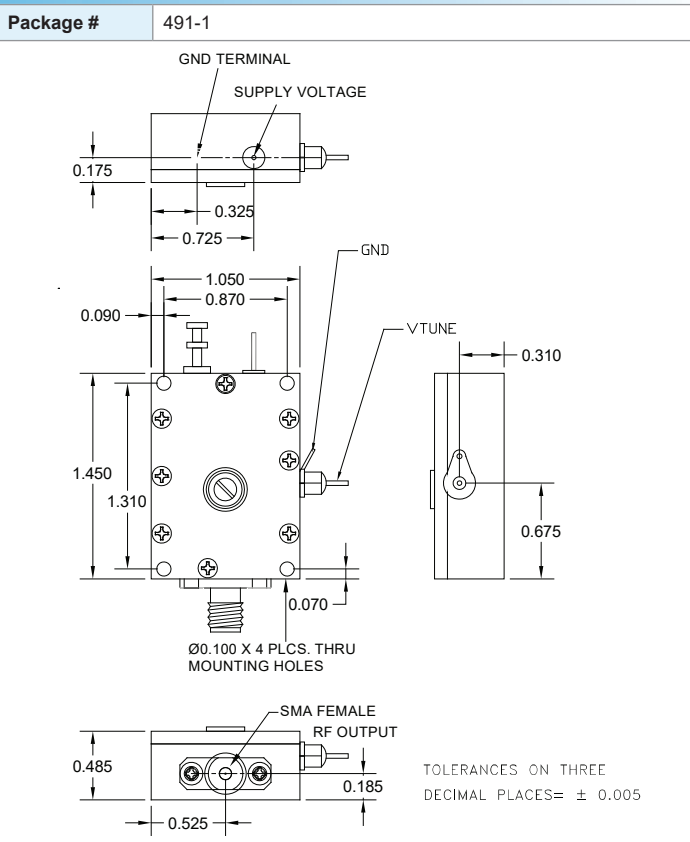
Frequency	10 GHz
Tuning Voltage	1 to 15 VDC
Bias Voltage	+8 VDC @ 60 mA (Typ.)
Output Power	+9 dBm (Min.)
Tuning Sensitivity	0.8 MHz/V (Typ.)
Thermal Drift	4.3 (ppm/°C)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	20 dBc (Typ.)
Tuning Port Capacitance	35 pF (Typ.)
Frequency Pushing	200 kHz/V (Typ.)
Frequency Pulling (1.75:1 VSWR)	500 kHz pk-pk (Typ.)

Phase Noise @ 25°C	Offset Freq. (MHz)	dBc/Hz (Typ.)
	1 kHz	-70
	10 kHz	-106
	100 kHz	-126
	1 MHz	-144
	10 MHz	-160

Operating Temperature Range	-20 to +70 °C
-----------------------------	---------------

Absolute Maximum Ratings

Storage Temp. Range	-30 to +85 °C
Bias Voltage	+8.5 VDC
Tuning Voltage	+16 VDC
DC Voltage Applied to RF Out	±25 VDC



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>



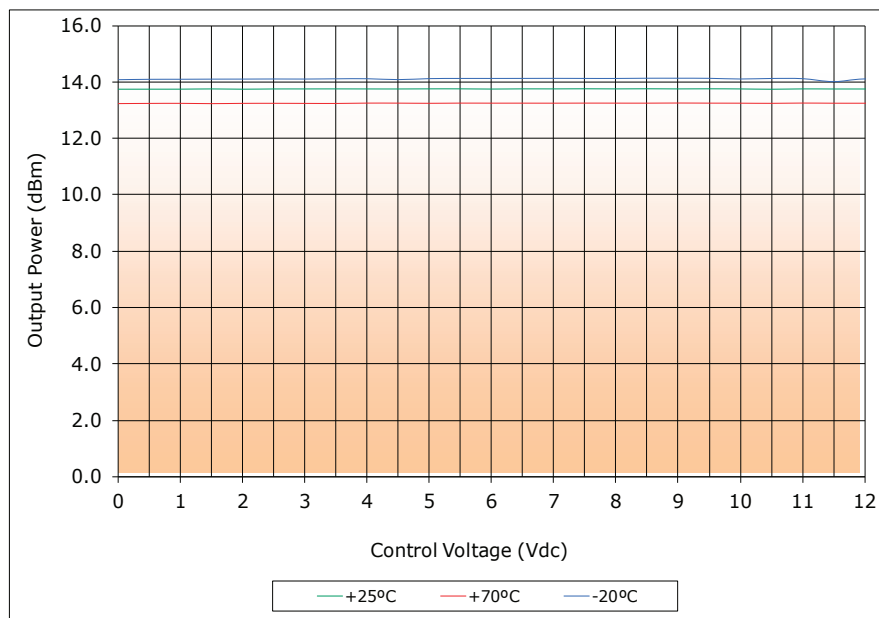
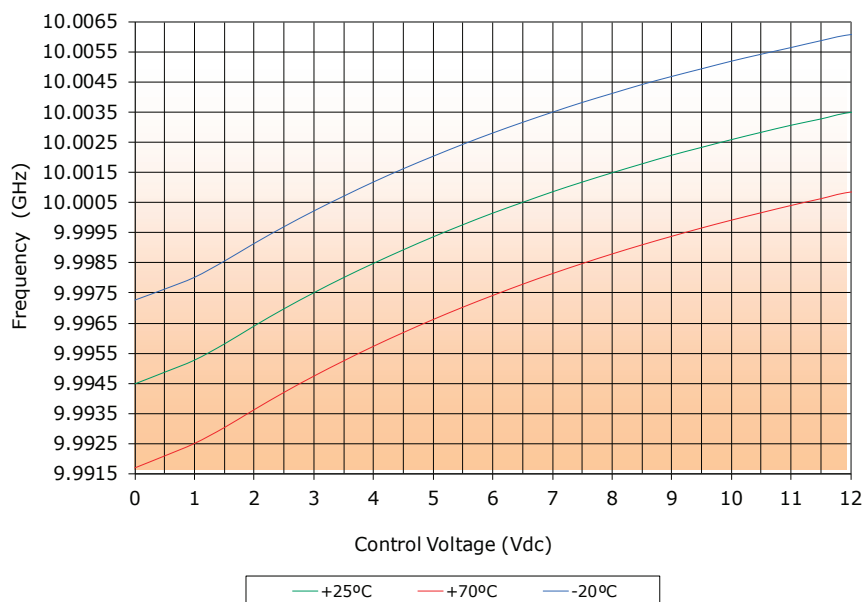
VOLTAGE CONTROLLED OSCILLATOR

CONNECTORIZED MODEL: KDRO1000-8

OPTIMIZED FREQUENCY

10 GHz

PERFORMANCE PLOTS



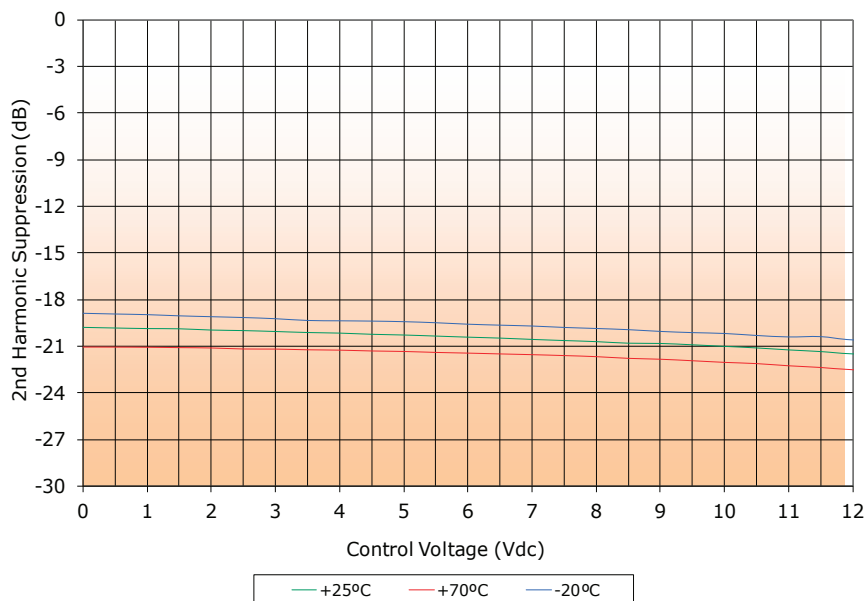
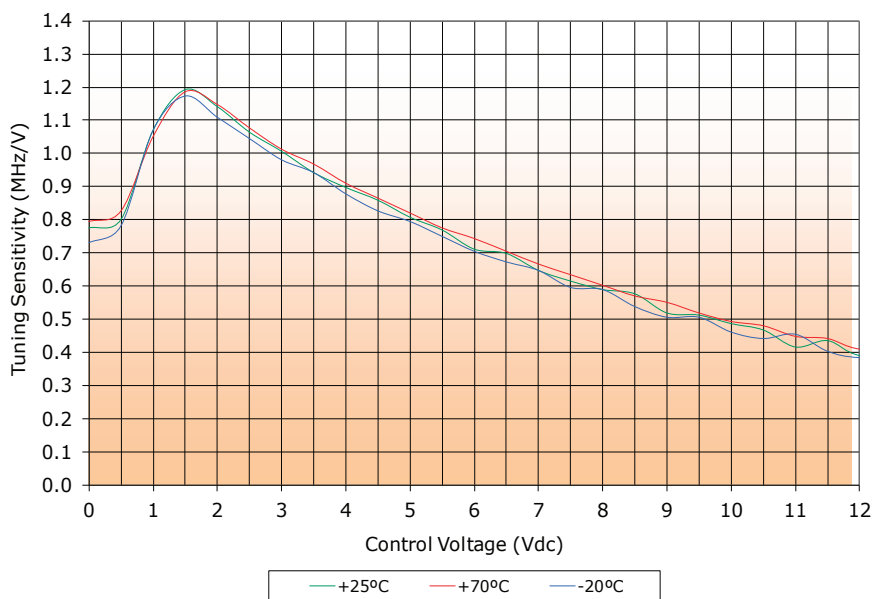
VOLTAGE CONTROLLED OSCILLATOR

CONNECTORIZED MODEL: KDRO1000-8

OPTIMIZED FREQUENCY

10 GHz

PERFORMANCE PLOTS

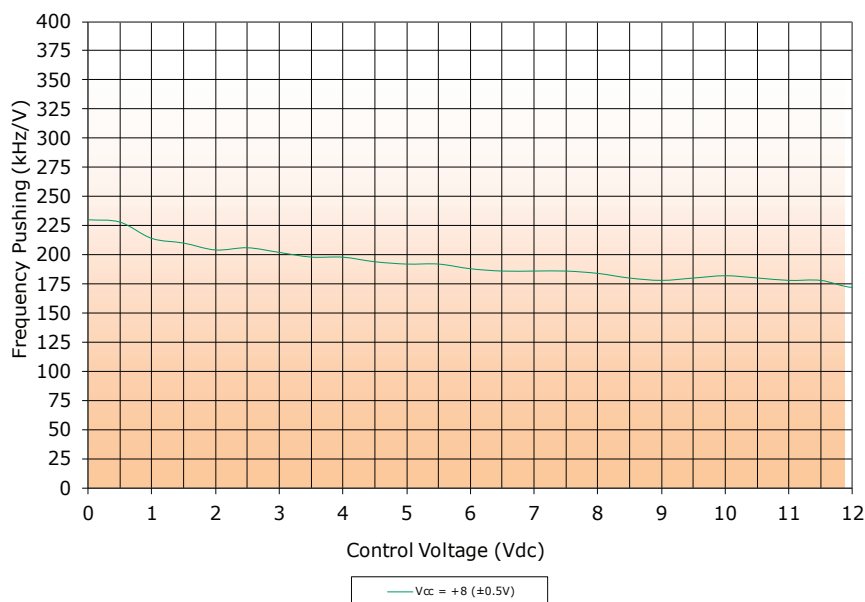


VOLTAGE CONTROLLED OSCILLATOR

CONNECTORIZED MODEL: KDRO1000-8

OPTIMIZED FREQUENCY

10 GHz



PERFORMANCE PLOTS