

VOLTAGE CONTROLLED OSCILLATOR

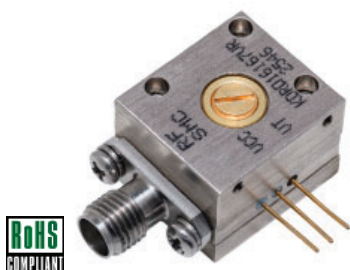
CONNECTORIZED MODEL: KDRO1800-5XT

OPTIMIZED FREQUENCY

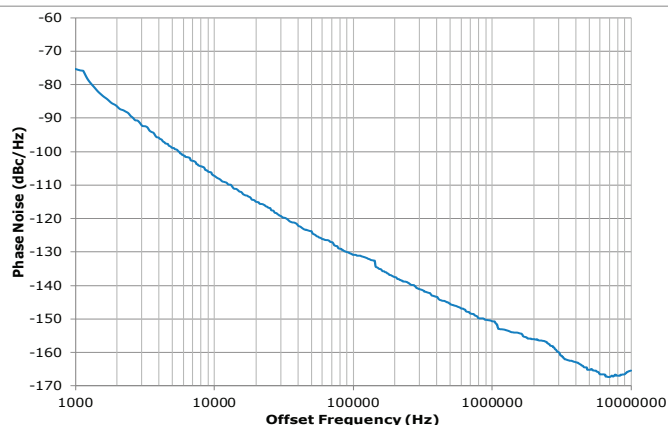
18 GHz

FEATURES:

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



Phase Noise



SPECIFICATIONS

Frequency	18 GHz
Tuning Voltage	1 to 12 VDC
Bias Voltage	+5 VDC @ 27 mA (Max.)
Output Power	-6 dBm (Min.)
Tuning Sensitivity	2 MHz/V (Typ.)
Thermal Drift	3.8 (ppm/°C)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	24 dBc (Typ.)
Tuning Port Capacitance	40 pF (Typ.)
Frequency Pushing	85 kHz/V (Typ.)
Frequency Pulling (1.75:1 VSWR)	750 kHz pk-pk (Typ.)

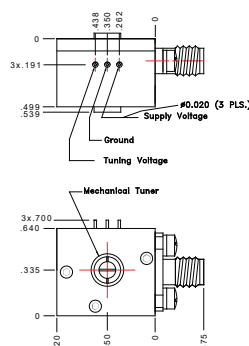
Phase Noise @ 25°C	Offset Freq. (MHz)	dBc/Hz (Typ.)
	1 kHz	-75
	10 kHz	-107
	100 kHz	-127
	1 MHz	-147
	10 MHz	-165

Operating Temperature Range	-40 to +85 °C
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Absolute Maximum Ratings

Storage Temp. Range	-45 to +90 °C
Bias Voltage	+5.5 VDC
Tuning Voltage	+16 VDC
DC Voltage Applied to RF Out	±25 VDC

Package # 483-1



Notes:

- 1) DC pins are solderable.
- 2) RF Output is SMA Female field replaceable.
- 3) Tolerances: +/- 0.015 inches.

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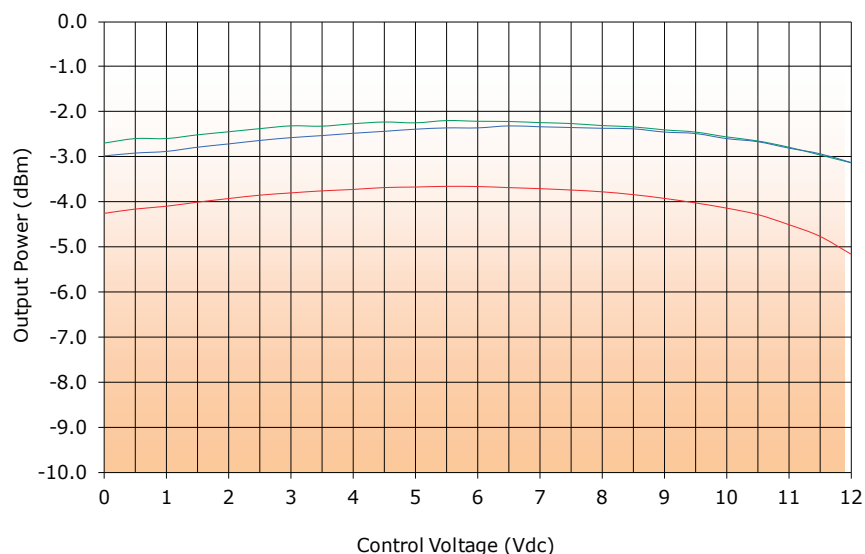
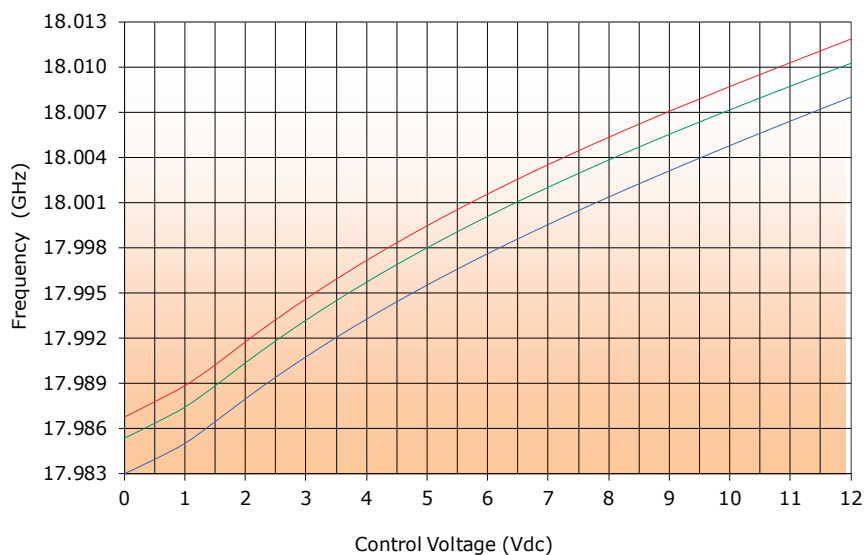
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PERFORMANCE PLOTS



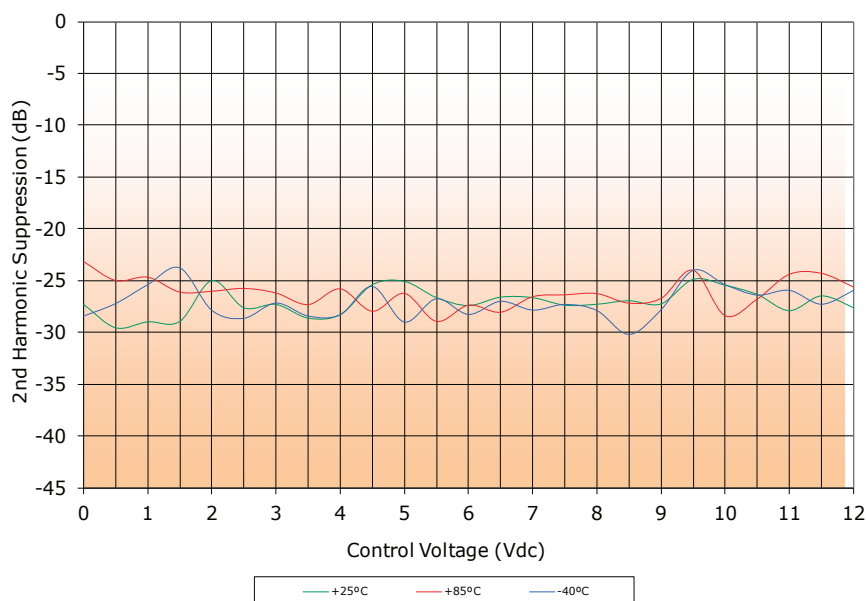
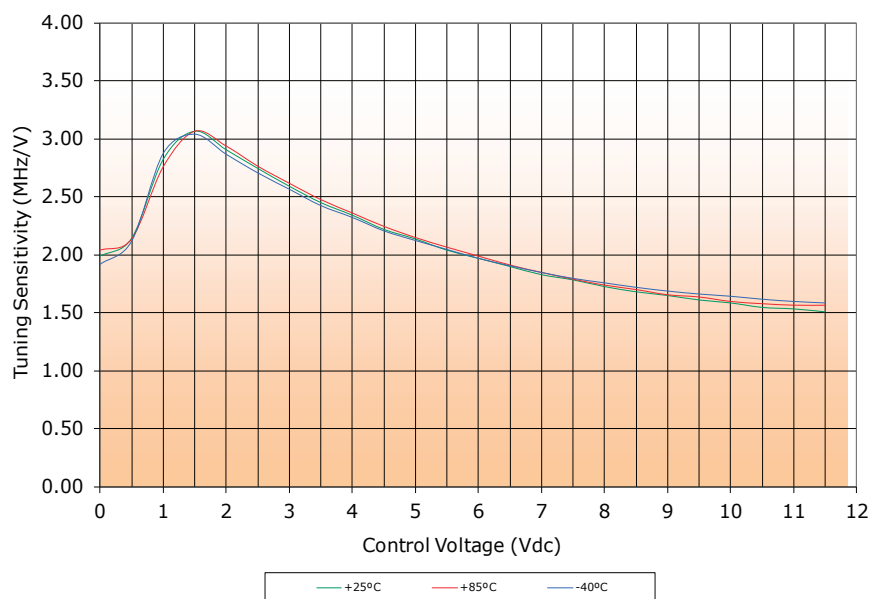
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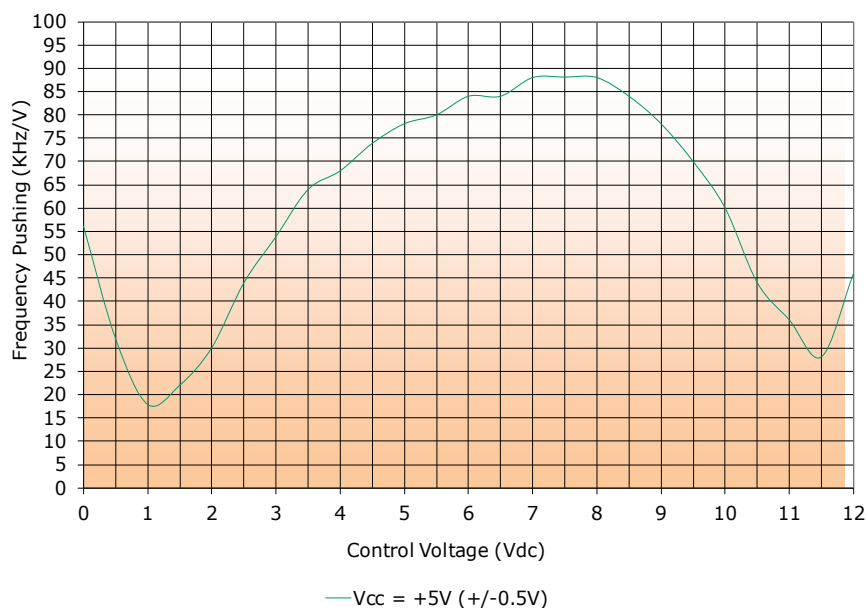


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