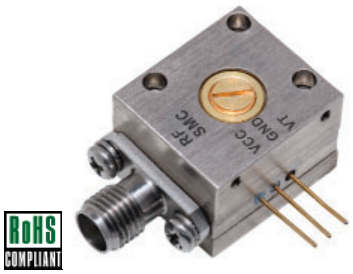
VOLTAGE CONTROLLED OSCILLATOR
CONNECTORIZED MODEL: KDRO1800-5XT

OPTIMIZED FREQUENCY 18 GHz

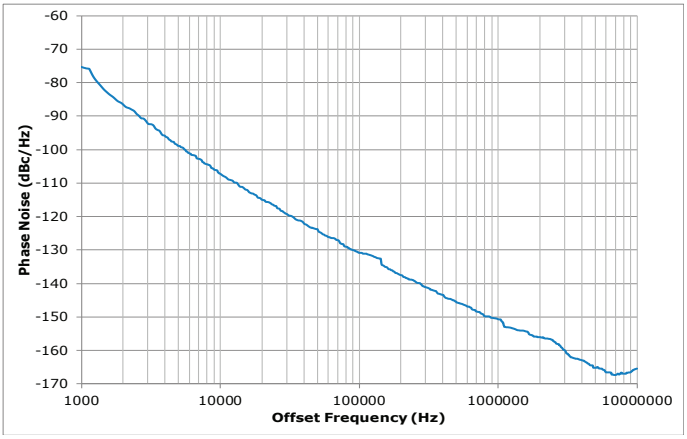
FEATURES:

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



RoHS COMPLIANT

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	

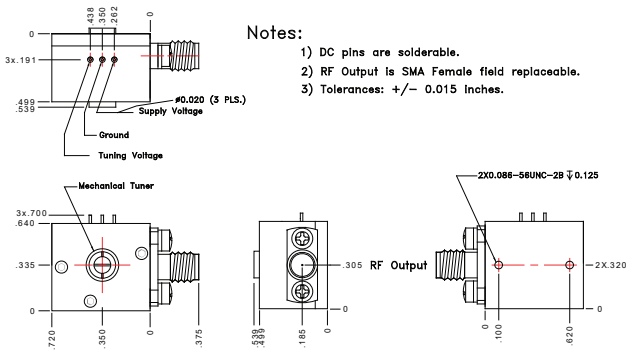
Offset Freq. (MHz)	dBc/Hz (Typ.)
1 kHz	-75
10 kHz	-107
100 kHz	-127
1 MHz	-147
10 MHz	-165

Operating Temperature Range	-40 to +85 °C

Absolute Maximum Ratings

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

Package #	483-1



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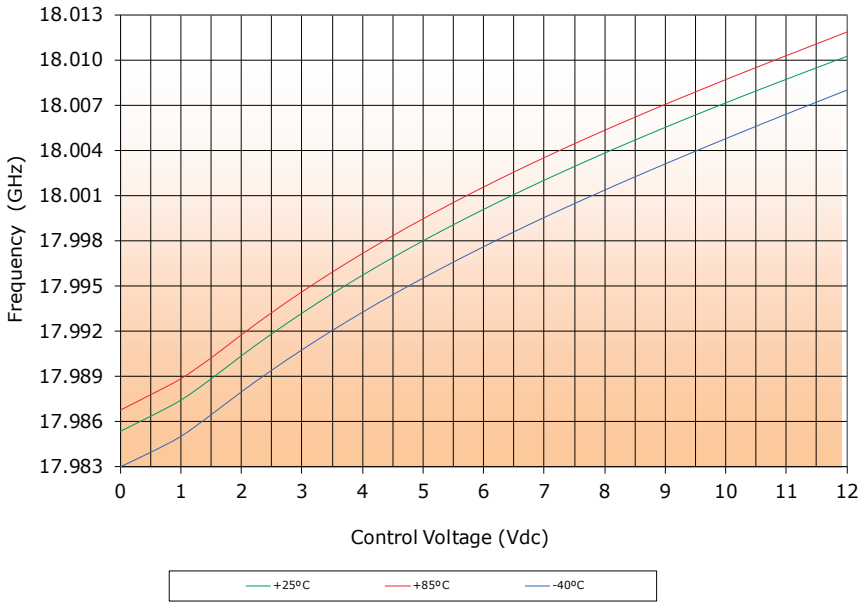
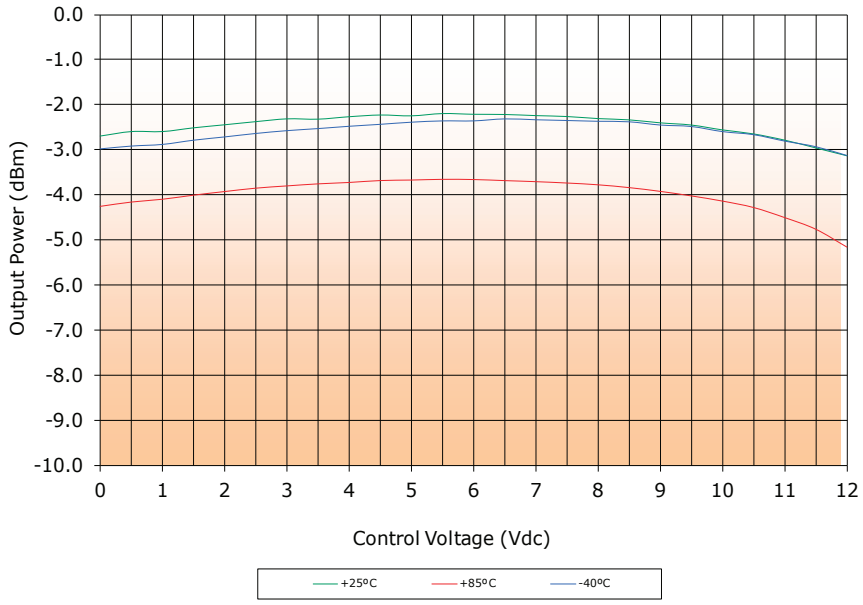
OPTIMIZED FREQUENCY 18 GHz

PERFORMANCE PLOTS





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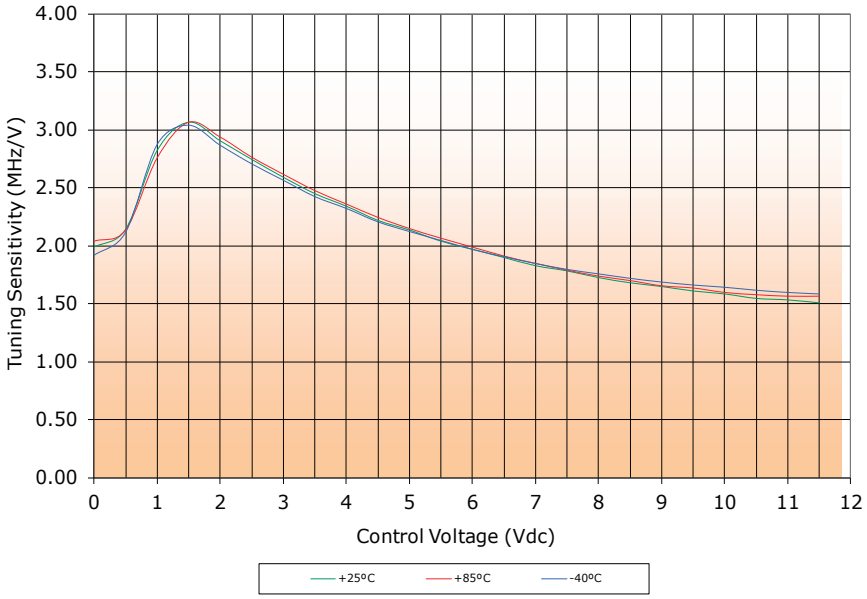

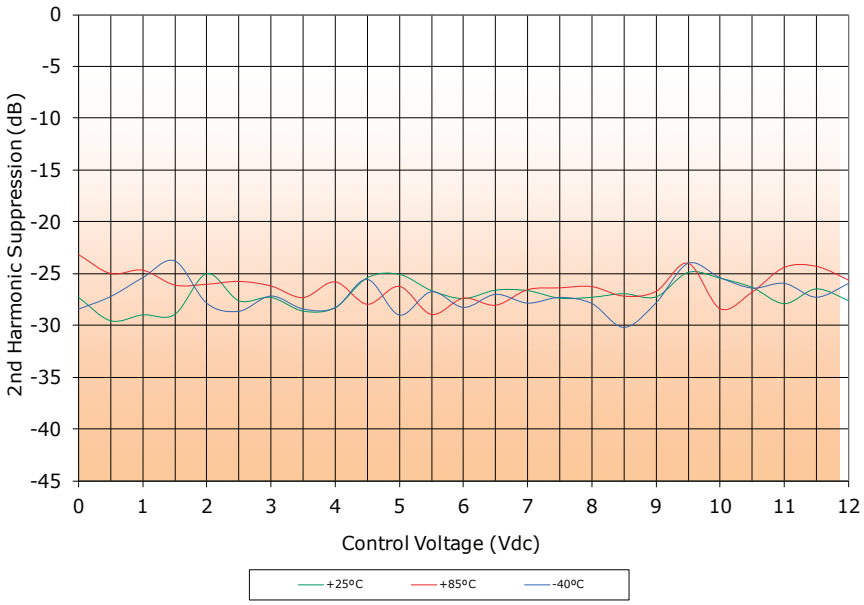

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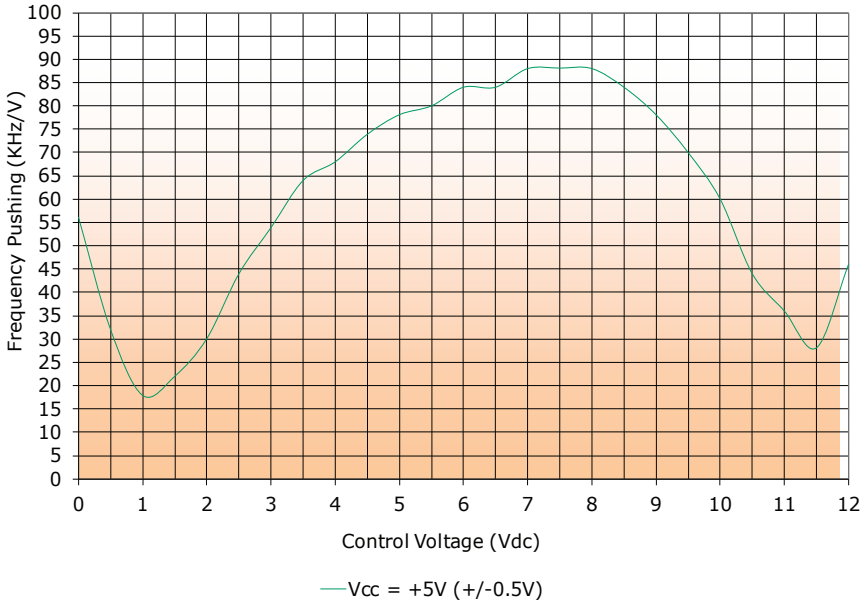

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