

VOLTAGE CONTROLLED OSCILLATOR

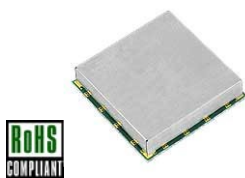
SURFACE MOUNT MODEL: MFC170195-5

OPTIMIZED BANDWIDTH

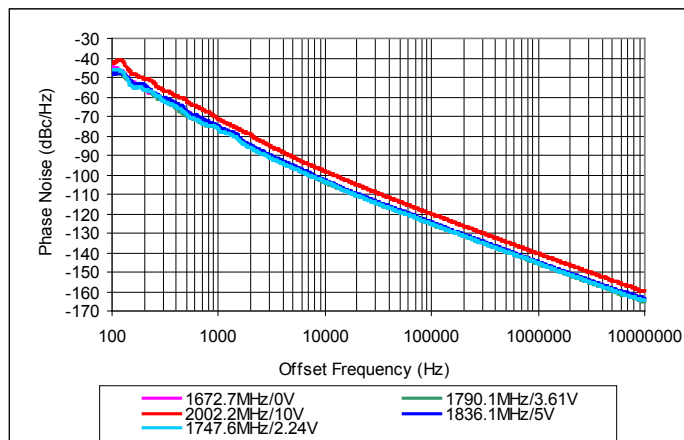
1700 - 1950 MHz

FEATURES:

- ▶ Low Phase Noise Performance
- ▶ Fast Tuning
- ▶ Ideal for PLL Applications
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



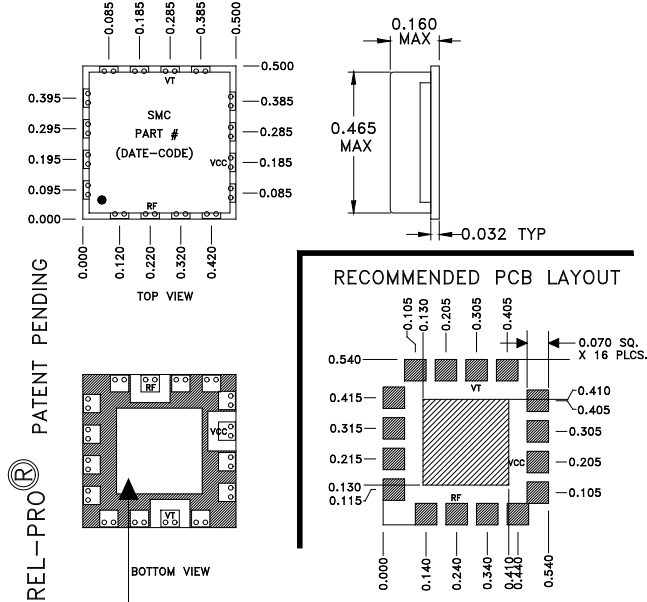
Phase Noise



SPECIFICATIONS (Rev. A 03/13/06)

Frequency	1700 - 1950 MHz
Tuning Voltage (Full Band)	0.5 - 10 VDC
Bias Voltage	+5 VDC @ <30 mA
Output Power	+3 dBm (Min)
Tuning Sensitivity	30 - 40 MHz/V (Typ)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	15 dBc (Min)
Frequency Pulling	3 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing	1 MHz/V (Typ)
Phase Noise @ 10 kHz	-104 dBc/Hz (Typ)
Operating Temperature Range	-40 to 85 °C

Package # 278LF



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	1700 (Max)
5	1810 (Min)
8	1910 (Min)
10	1950 (Min)

OPTIONAL SOLDER AREA
FOR HIGH VIBRATION ENVIRONMENT

TOLERANCES ON THREE
DECIMAL PLACES= ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

ALL UNLABELED PINS
TO BE GROUNDED.

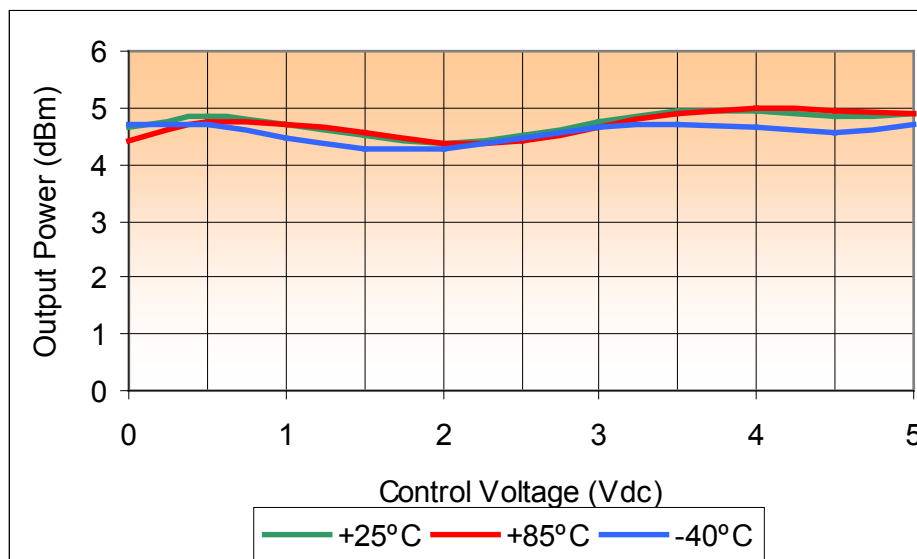
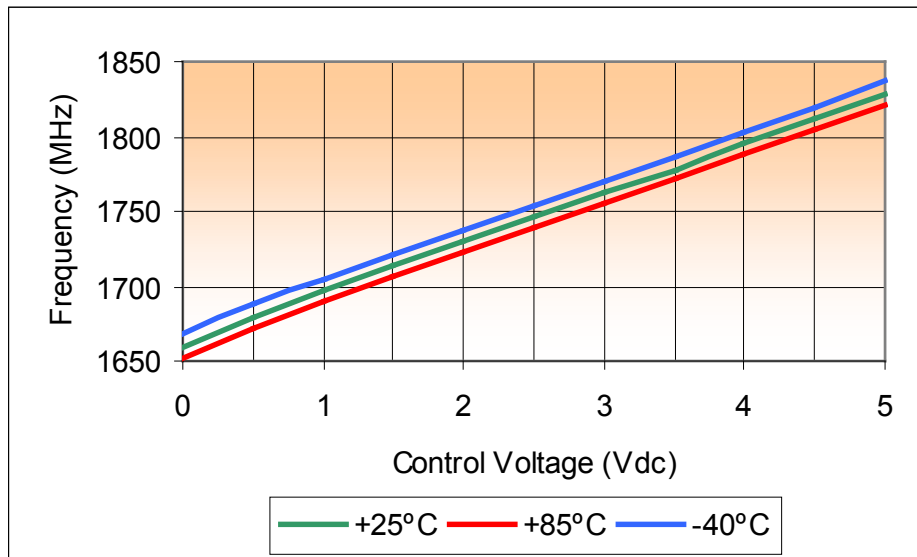
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PERFORMANCE PLOTS



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