

VOLTAGE CONTROLLED OSCILLATOR

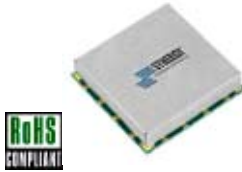
SURFACE MOUNT MODEL: MFC6170-5

OPTIMIZED BANDWIDTH

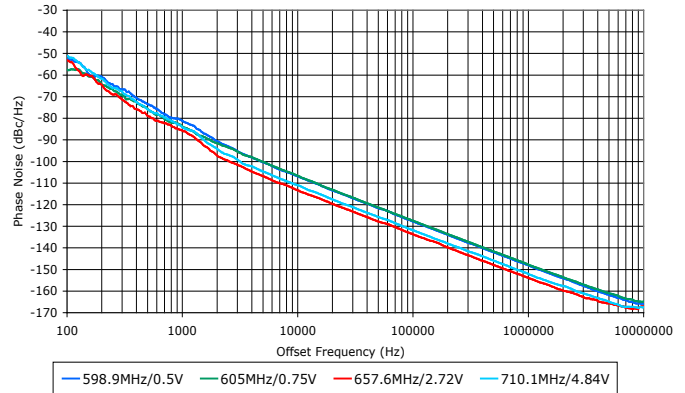
610 - 700 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. D 11/03/08)

Frequency	610 - 700 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 35 mA (Max.)
Output Power	+4 dBm (Min.)
Tuning Sensitivity	17 - 30 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	1 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	0.5 MHz/V (Typ.)
Tuning Port Capacitance	33 pF (Typ.)
Phase Noise @ 10 kHz	-113 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

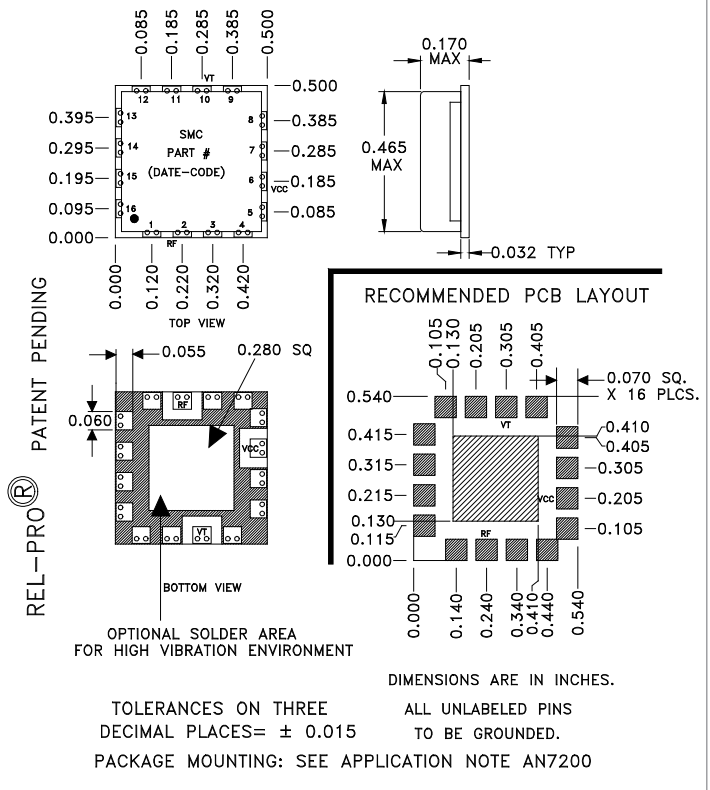
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	610 (Max.)
5	700 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+10 V
DC Voltage Applied to RF Out	± 25 V

Package # 278LF



This product is manufactured under one or more of the following patents: Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,650,754; 5,805,431; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113
 Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834;
 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787



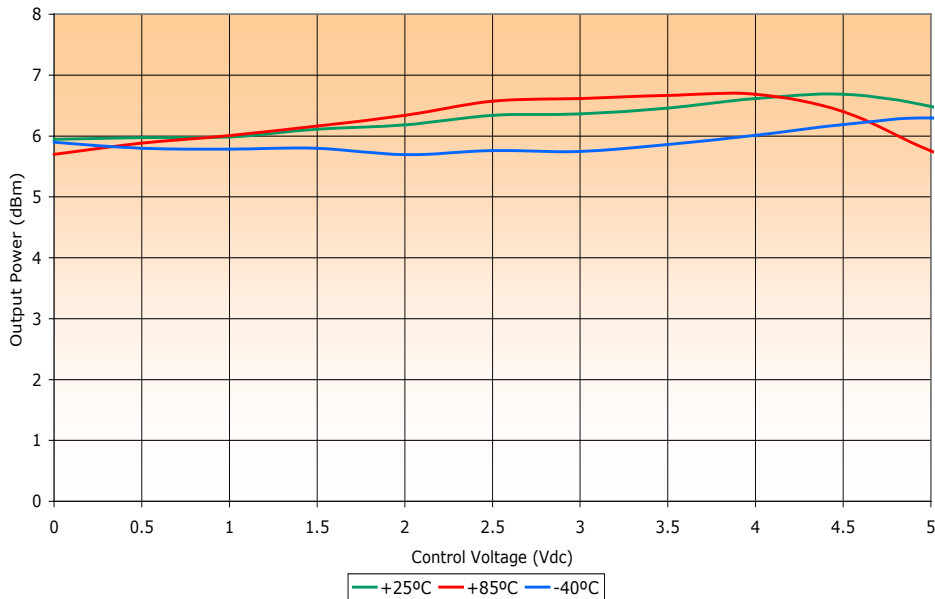
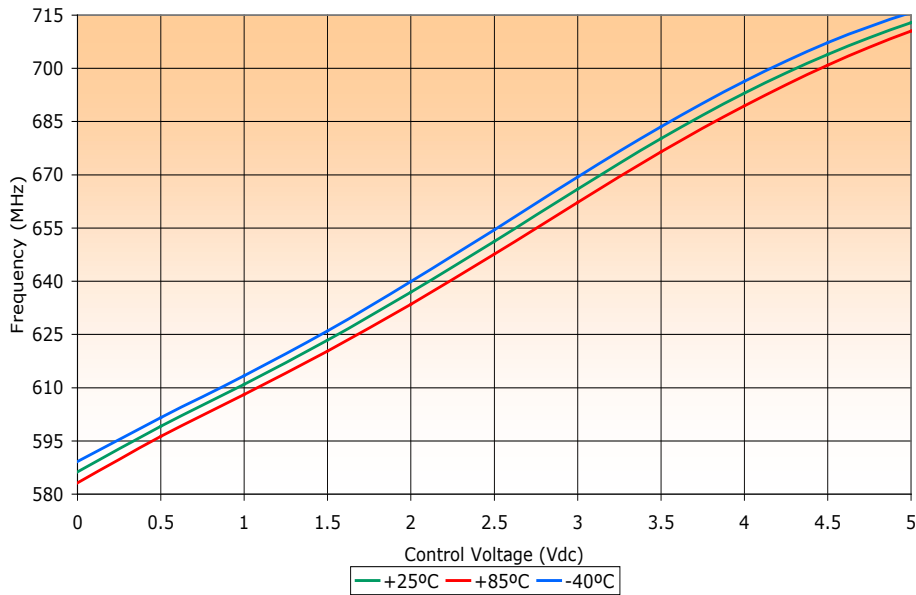
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: MFC6170-5

OPTIMIZED BANDWIDTH

610 - 700 MHz

PERFORMANCE PLOTS



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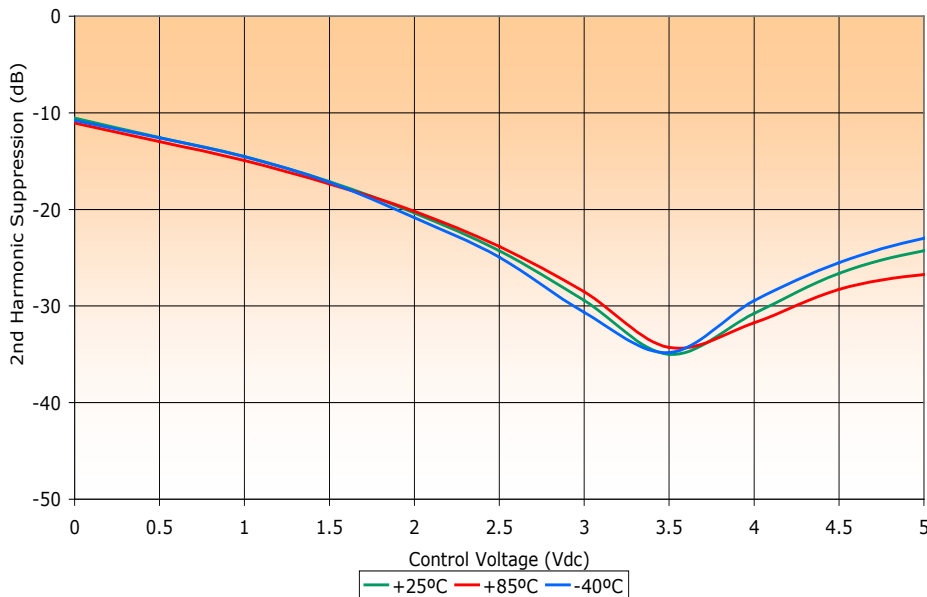
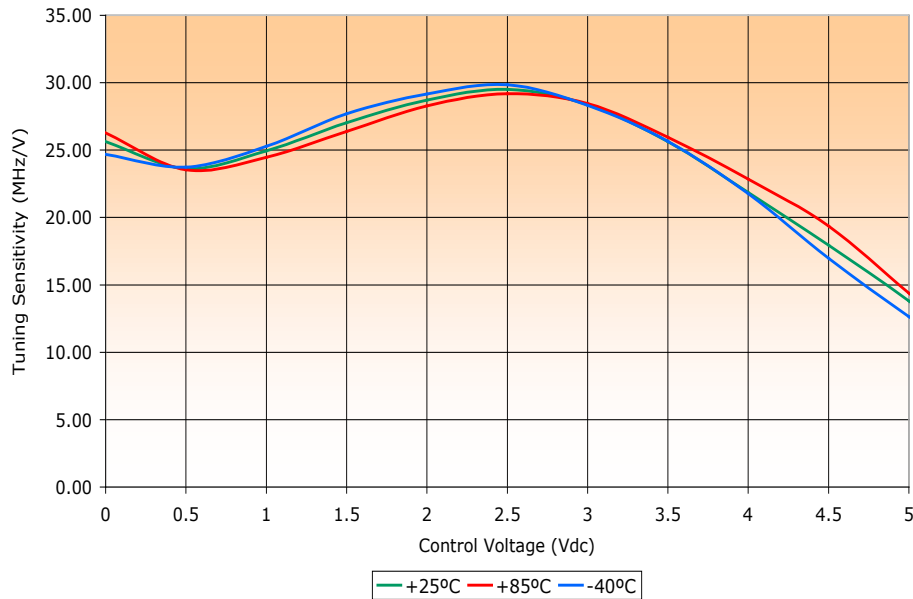


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: MFC6170-5

OPTIMIZED BANDWIDTH

610 - 700 MHz

PERFORMANCE PLOTS



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