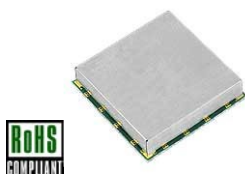


810 - 920 MHz

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



| | |
|-----------------------------|---------------------------|
| Frequency | 810 - 920 MHz |
| Tuning Voltage (Full Band) | 0.5 - 5 VDC |
| Bias Voltage | +5 VDC @ <30 mA |
| Output Power | +3 dBm (Min) |
| Tuning Sensitivity | 25 - 40 MHz/V (Typ) |
| Output Impedance | 50 Ohms (Nom) |
| Harmonic Suppression | 10 dBc (Min) |
| Frequency Pulling | 5 MHz (Typ @ 1.75:1 VSWR) |
| Frequency Pushing | 2 MHz/V (Typ) |
| Phase Noise @ 10 kHz | -106 dBc/Hz (Typ) |
| Operating Temperature Range | -40 to 85 °C |

| Tuning Voltage (V) | Frequency (MHz) |
|----------------------|-------------------|
| 0.5 | 810 (Max) |
| 5 | 920 (Min) |

REL-PRO® PATENT PENDING

TOP VIEW

0.085 0.185 0.285 0.385 0.500

0.395 0.295 0.195 0.095 0.000

SMC
PART #
(DATE-CODE)

VT

VCC

RF

0.000 0.120 0.220 0.320 0.420

BOTTOM VIEW

RF

VT

VCC

RECOMMENDED PCB LAYOUT

0.105 0.130 0.205 0.305 0.405

0.540 0.415 0.315 0.215 0.130 0.115

0.000 0.140 0.240 0.340 0.440 0.540

0.070 SQ. X 16 PLCS.

VT

VCC

RF

0.105 0.205 0.305 0.405 0.410

ALL UNLABELED PINS
TO BE GROUNDED.

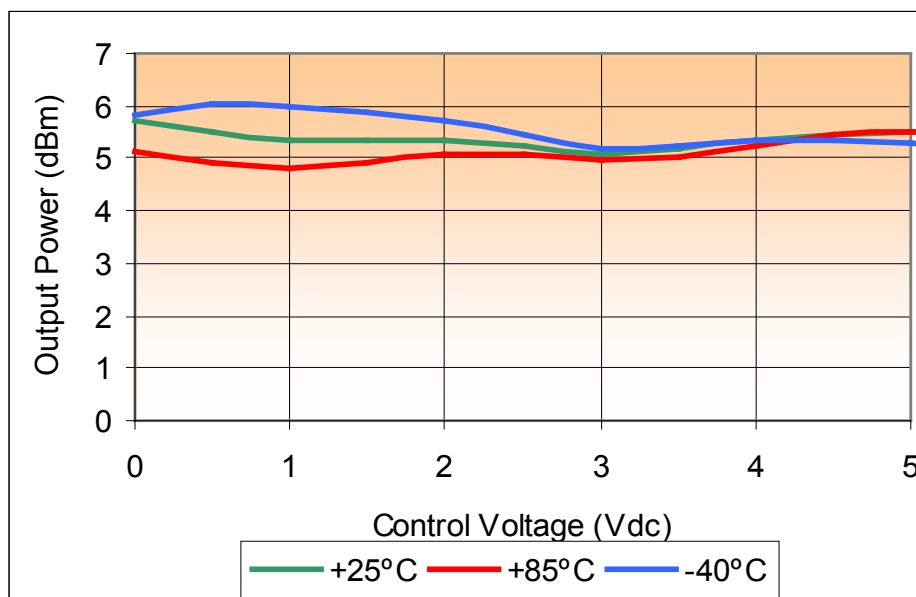
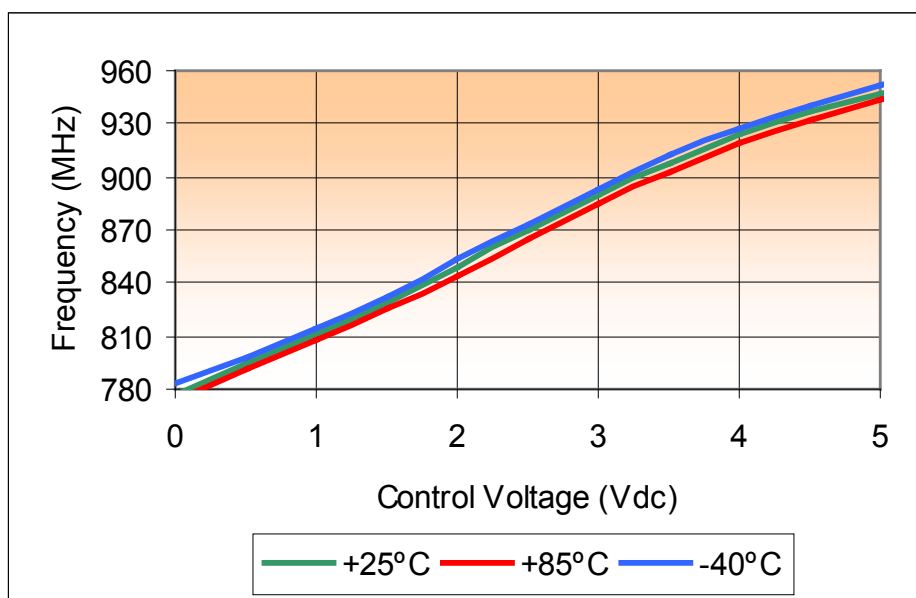
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: MFC8192-5

OPTIMIZED BANDWIDTH

810 - 920 MHz

PERFORMANCE PLOTS



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