

VOLTAGE CONTROLLED OSCILLATOR

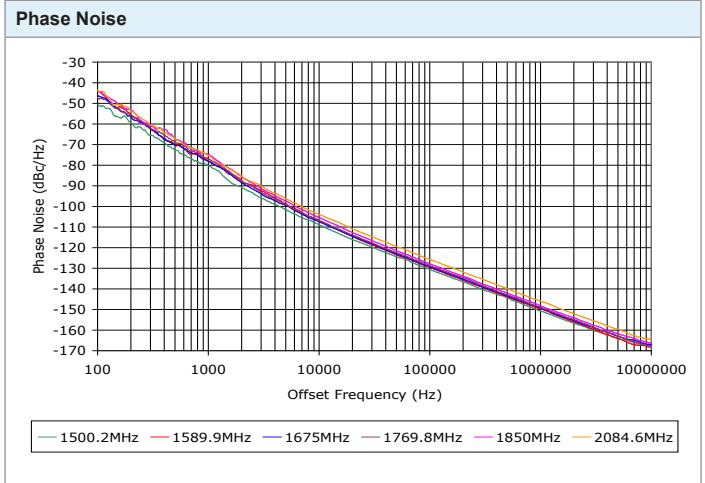
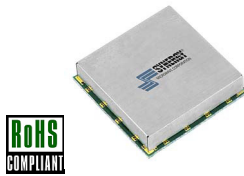
SURFACE MOUNT MODEL: DCRO153185-10

OPTIMIZED BANDWIDTH

1500 - 2000 MHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology
- ▶ Planar Resonator Construction



SPECIFICATIONS (Rev. D 07/09/13)

| | |
|-----------------------------|----------------------------|
| Frequency | 1500 - 2000 MHz |
| Tuning Voltage | See table below. |
| Bias Voltage | +10 VDC @ 35 mA (Max.) |
| Output Power | +5 dBm (Min.) |
| Tuning Sensitivity | 23 - 45 MHz/V (Typ.) |
| Output Impedance | 50 Ohms (Nom.) |
| Harmonic Suppression | 18 dB (Typ.) |
| Frequency Pulling | 5 MHz (Typ. @ 1.75:1 VSWR) |
| Frequency Pushing | 1 MHz/V (Typ.) |
| Tuning Port Capacitance | 56 pF (Typ.) |
| Phase Noise @ 10 kHz | -107 dBc/Hz (Typ.) |
| Operating Temperature Range | -40 to +85 °C |

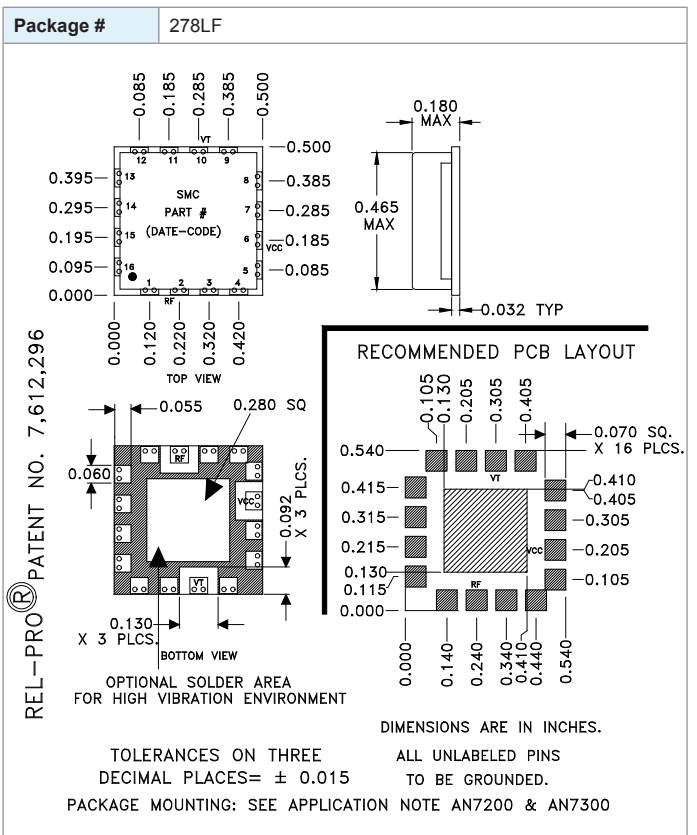
Guaranteed Tuning Specifications

| Tuning Voltage (V) | Frequency (MHz) |
|----------------------|-------------------|
| 0.5 | 1500 (Max.) |
| 5 | 1560 (Min.) |
| 8 | 1615 (Min.) |
| 12 | 1750 (Min.) |
| 15 | 1850 (Min.) |
| 20 | 2000 (Min.) |

Absolute Maximum Ratings

| | |
|------------------------------|----------------|
| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage | +10.5 V |
| Tuning Voltage | +20 V |
| DC Voltage Applied to RF Out | ± 25 V |

Patent : <http://www.synergymwave.com/patents>



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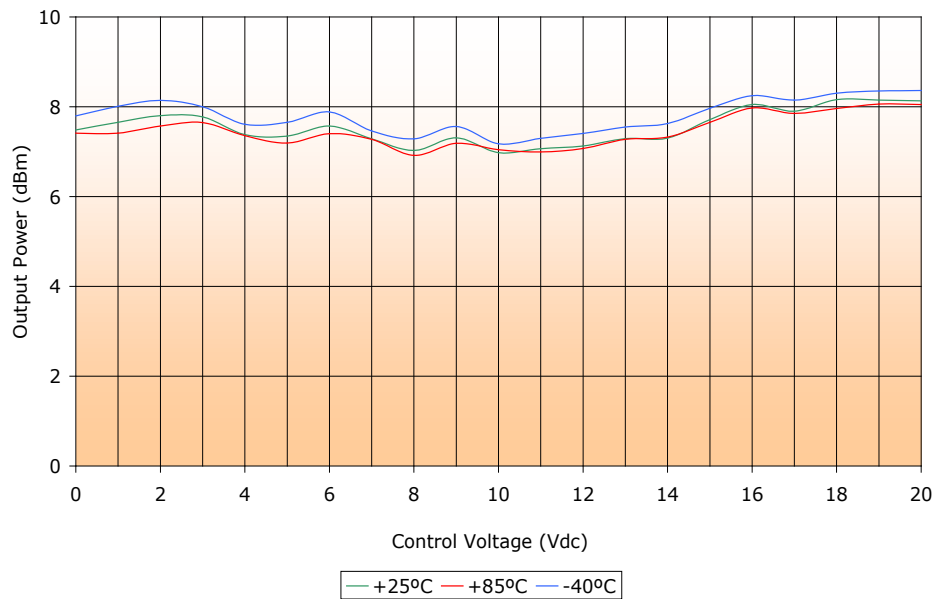
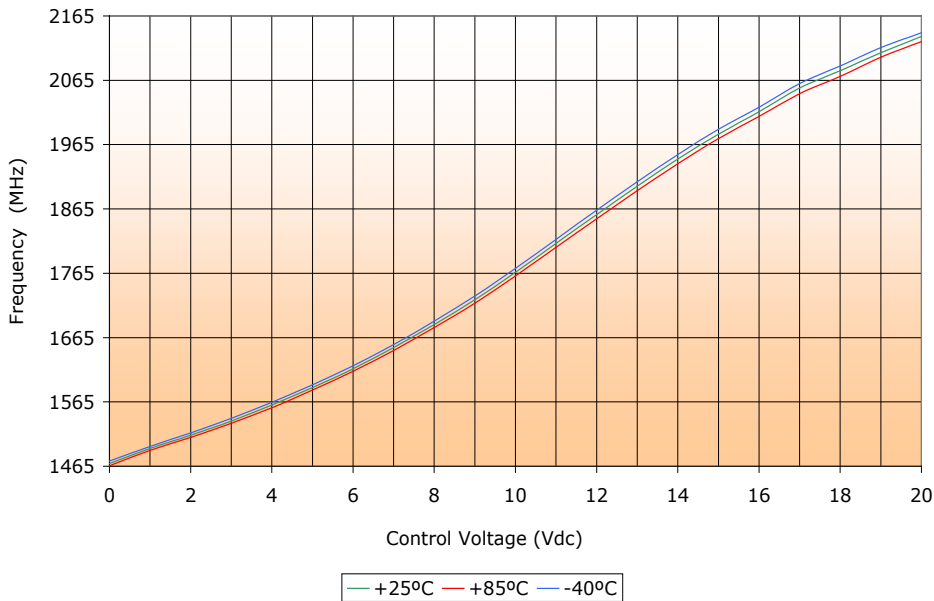
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PERFORMANCE PLOTS



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