VOLTAGE CONTROLLED SAW OSCILLATOR
SURFACE MOUNT MODEL: HFSO2000-5L

FEATURES:
► Exceptional Phase Noise Performance
► Small Size, Surface Mount
► Lead Free REL-PRO® Technology
► Buffered Output

SPECIFICATIONS (Rev. C 03/10/17)

- Frequency: 2000 MHz
- Tuning Voltage: 0.5 - 12 VDC
- Bias Voltage (Vcc): +5 VDC (± 5%) @ 100 mA (Max.)
- Output Power: +6 dBm (Min.)
- Tuning Sensitivity: 35 kHz/V (Typ.)
- Thermal Drift: 300 kHz (Typ.)
- Output Impedance: 50 Ohms (Nom.)
- Harmonic Suppression: 20 dBc (Typ.)
- Sub-Harmonic Suppression: 20 dBc (Typ.)
- Frequency Pulling: 15 kHz (Typ. @ 1.75:1 VSWR)
- Frequency Pushing: 20 kHz/V (Typ.) Vcc ±5%
- Tuning Port Capacitance: 55 pF (Typ.)
- Phase Noise @ 25 ºC: @ 10 kHz -133 dBc/Hz (Typ.)
- @ 100 kHz -159 dBc/Hz (Typ.)

Operating Temperature Range: -20 to +70 ºC

Absolute Maximum Ratings

- Storage Temp. Range: -30 to +85 ºC
- Bias Voltage: +5.5 V
- Tuning Voltage: +15 V
- DC Voltage Applied to RF Out: ± 25 V

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2000 MHz

PERFORMANCE PLOTS

Frequency (MHz)

Control Voltage (Vdc)

Output Power (dBm)

Control Voltage (Vdc)

+25°C  +70°C  -20°C

+25°C  +70°C  -20°C
PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

Control Voltage (Vdc)

+25ºC  +70ºC  -20ºC

2nd Harmonic Suppression (dB)

Control Voltage (Vdc)

+25ºC  +70ºC  -20ºC
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2000 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)

3rd Harmonic Suppression (dB)

+25ºC
+70ºC
-20ºC