

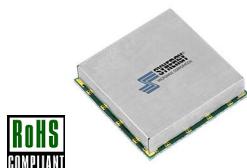
VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO600-5

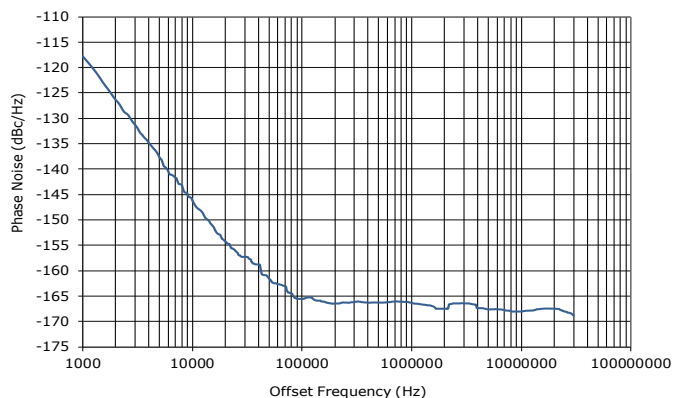
600 MHz

FEATURES:

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



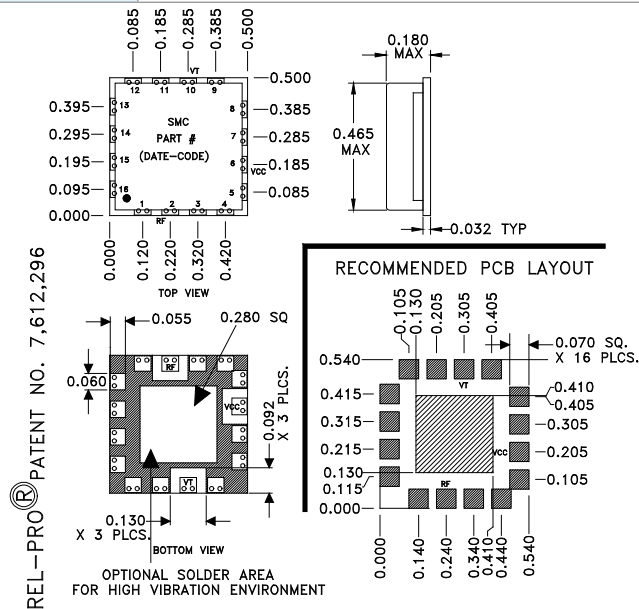
Phase Noise



SPECIFICATIONS

Frequency	600 MHz						
Tuning Voltage	0.5 - 12 VDC						
Bias Voltage (Vcc)	+5 VDC (± 5%) @ 36 mA (Max.)						
Output Power	+6 dBm (Min.)						
Tuning Sensitivity	30 kHz/V (Typ.)						
Thermal Drift	53 kHz (Typ.)						
Output Impedance	50 Ohms (Nom.)						
Harmonic Suppression	<table border="1"> <thead> <tr> <th></th><th>dBc (Typ.)</th></tr> </thead> <tbody> <tr> <td>2nd</td><td>13</td></tr> <tr> <td>3rd</td><td>32</td></tr> </tbody> </table>		dBc (Typ.)	2nd	13	3rd	32
	dBc (Typ.)						
2nd	13						
3rd	32						
Frequency Pulling	10 kHz (Typ. @ 1.75:1 VSWR)						
Frequency Pushing	5 kHz/V (Typ.) Vcc ± 5%						
Tuning Port Capacitance	135 pF (Typ.)						
Phase Noise @ 25 °C	<table border="1"> <thead> <tr> <th>Offset</th><th>dBc/Hz (Typ.)</th></tr> </thead> <tbody> <tr> <td>@ 10 kHz</td><td>-146</td></tr> <tr> <td>@ 100 kHz</td><td>-165</td></tr> </tbody> </table>	Offset	dBc/Hz (Typ.)	@ 10 kHz	-146	@ 100 kHz	-165
Offset	dBc/Hz (Typ.)						
@ 10 kHz	-146						
@ 100 kHz	-165						
Operating Temperature Range	-20 to +70 °C						

Package # 278LF



Absolute Maximum Ratings

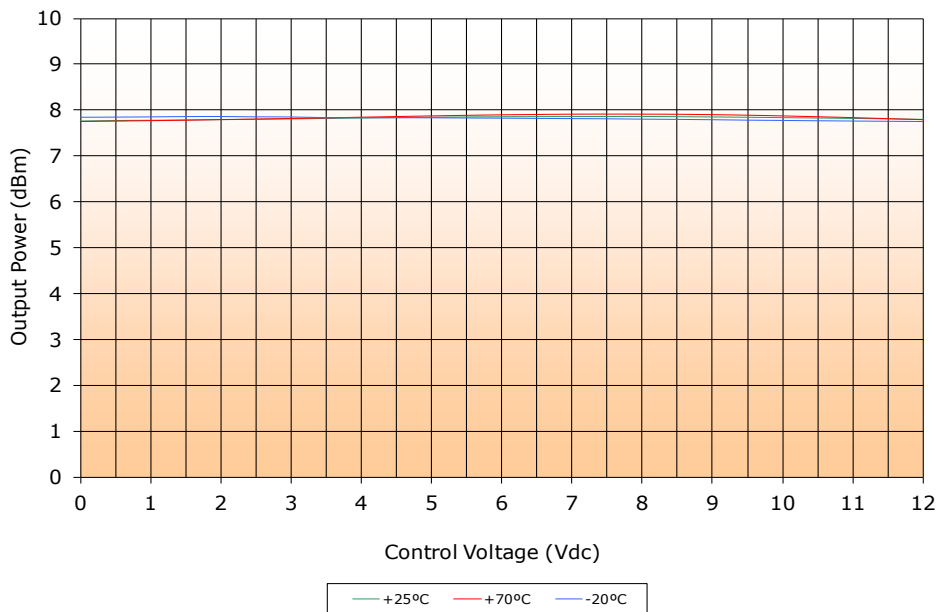
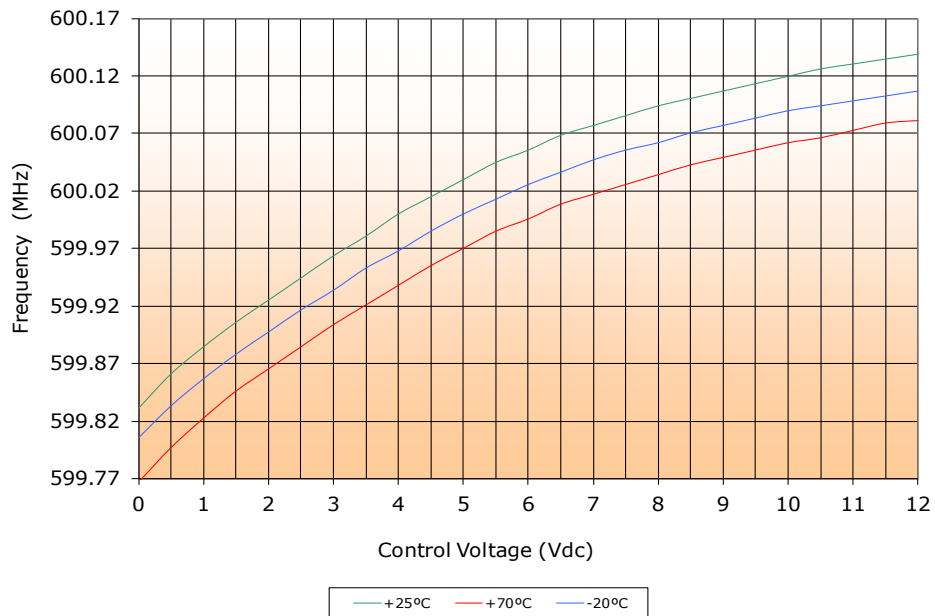
Storage Temp. Range	-40 to +85 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO600-5

600 MHz

PERFORMANCE PLOTS

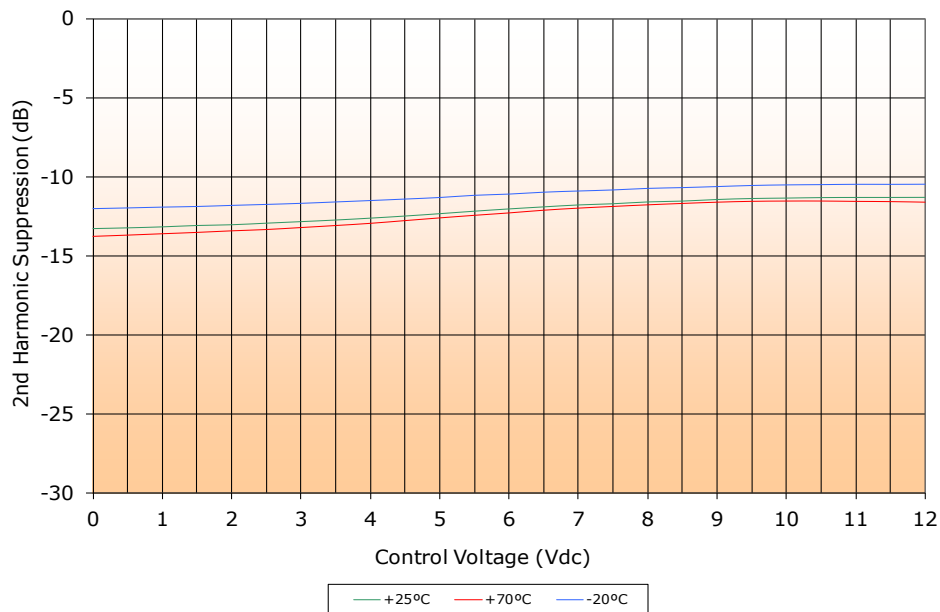
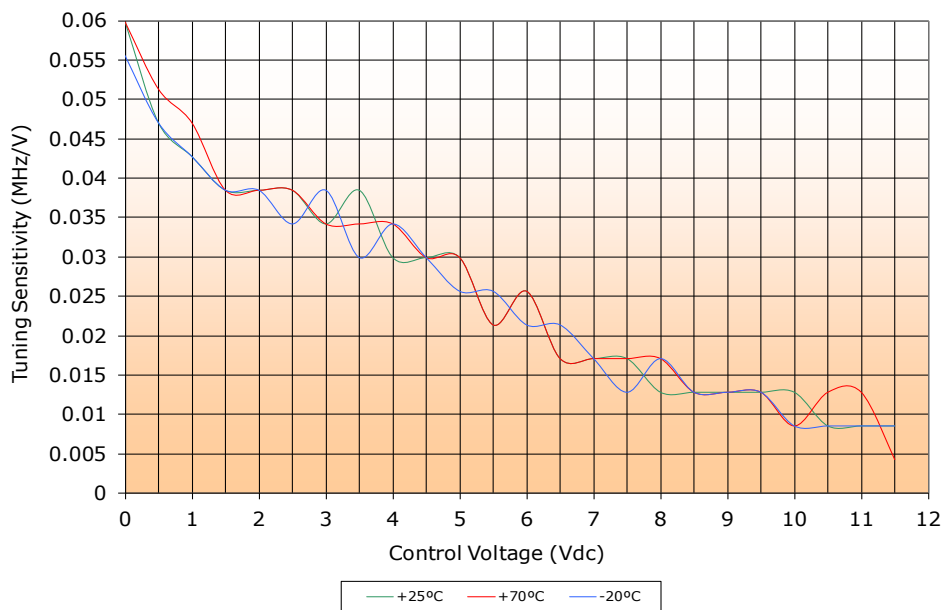


VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO600-5

600 MHz

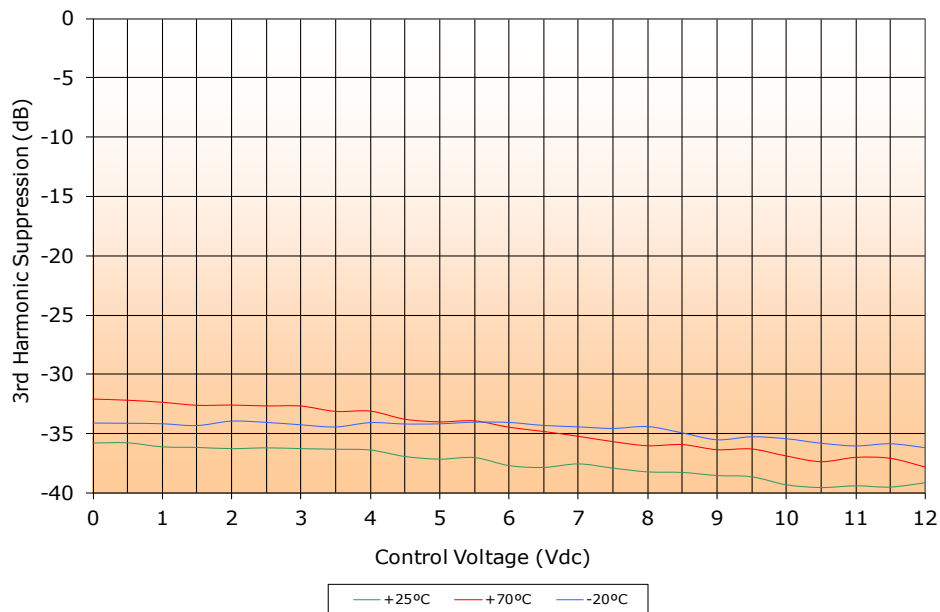
PERFORMANCE PLOTS



VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO600-5

600 MHz



PERFORMANCE PLOTS