

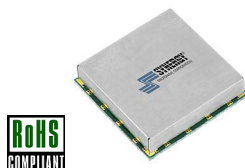
VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO750-5

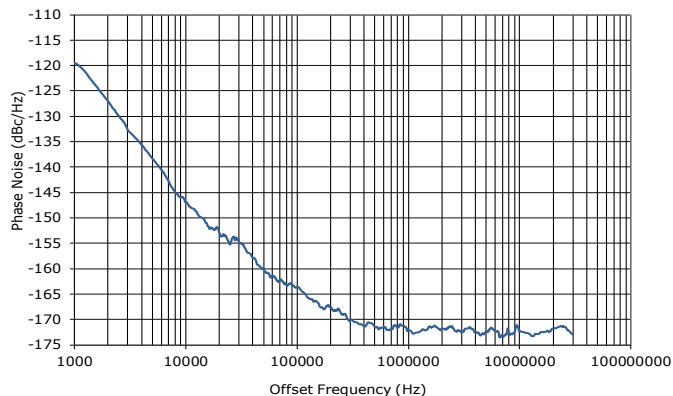
750 MHz

FEATURES:

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



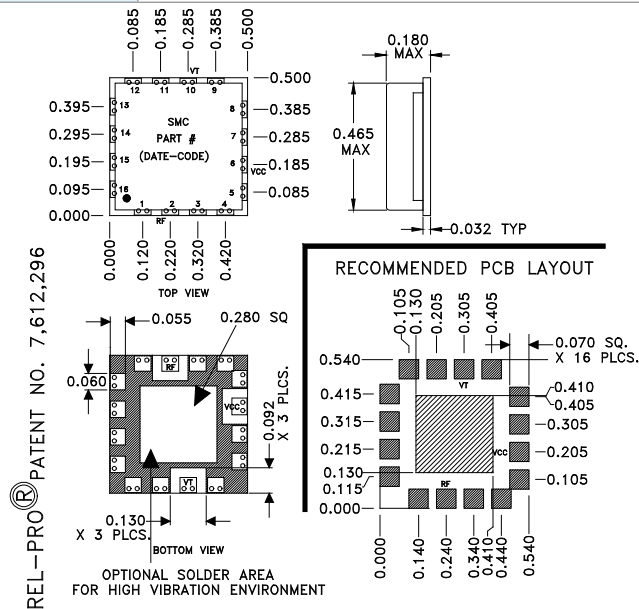
Phase Noise



SPECIFICATIONS

Frequency	750 MHz						
Tuning Voltage	0.5 - 12 VDC						
Bias Voltage (Vcc)	+5 VDC ($\pm 5\%$) @ 26 mA (Max.)						
Output Power	+3 dBm (Min.)						
Tuning Sensitivity	25 kHz/V (Typ.)						
Thermal Drift	85 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>18</td></tr> <tr> <td>3rd</td><td>18</td></tr> </tbody> </table>		dBc (Typ.)	2nd	18	3rd	18
	dBc (Typ.)						
2nd	18						
3rd	18						
Frequency Pulling	10 kHz (Typ. @ 1.75:1 VSWR)						
Frequency Pushing	5 kHz/V (Typ.) Vcc $\pm 5\%$						
Tuning Port Capacitance	125 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>-164</td></tr> </tbody> </table>	Offset	dBc/Hz (Typ.)	@ 10 kHz	-146	@ 100 kHz	-164
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@ 10 kHz	-146						
@ 100 kHz	-164						
Operating Temperature Range	-20 to +70 °C						

Package # 278LF



Absolute Maximum Ratings

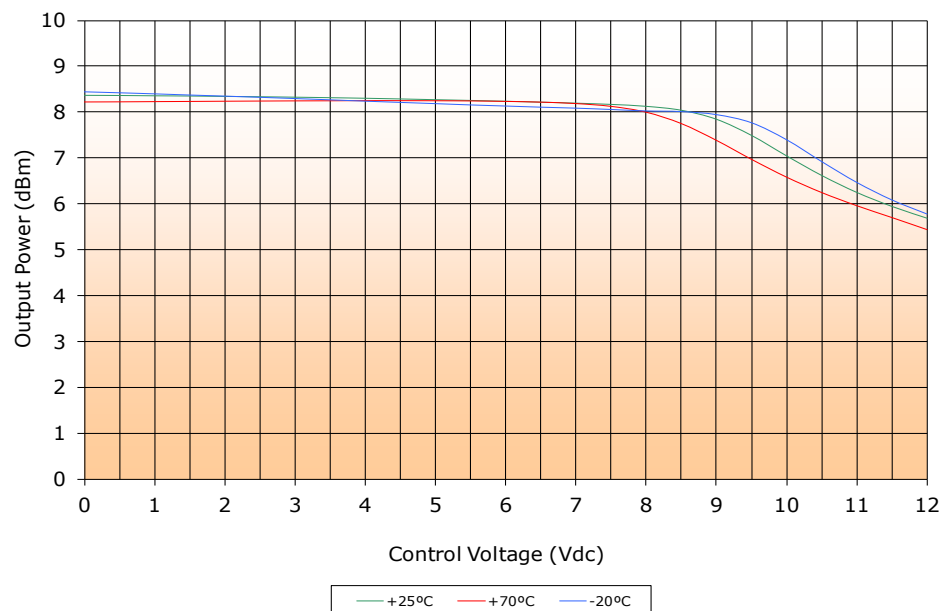
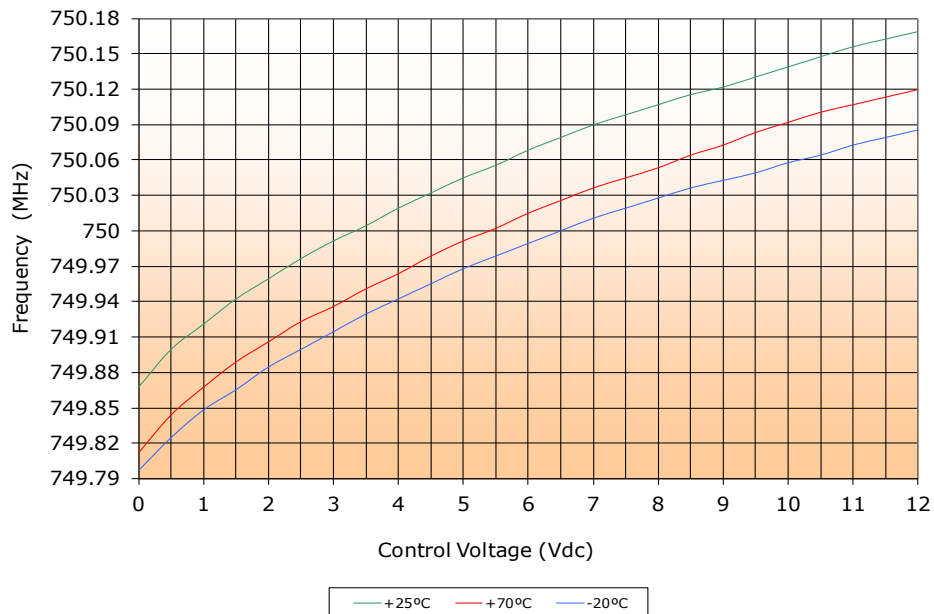
Storage Temp. Range	-40 to +85 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

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PERFORMANCE PLOTS

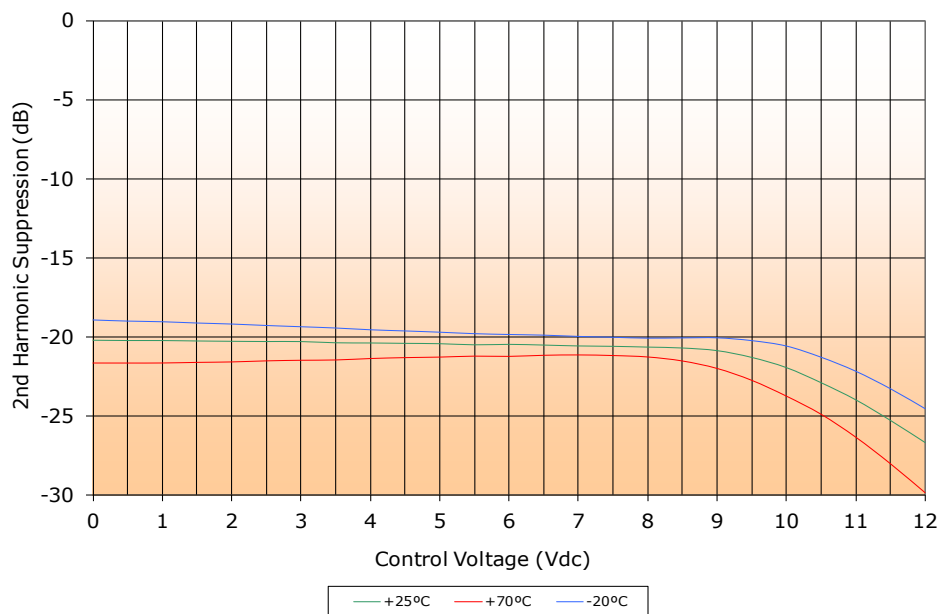
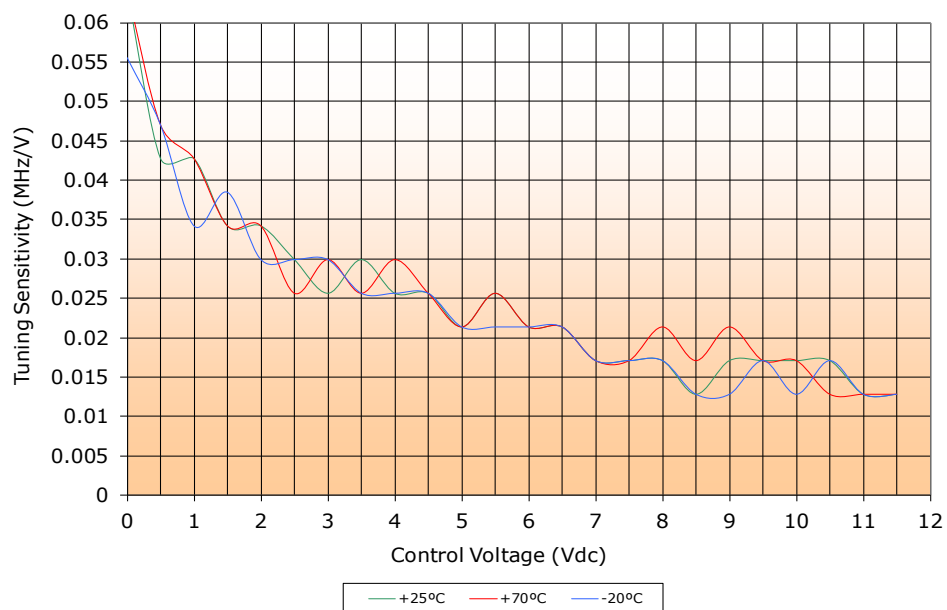


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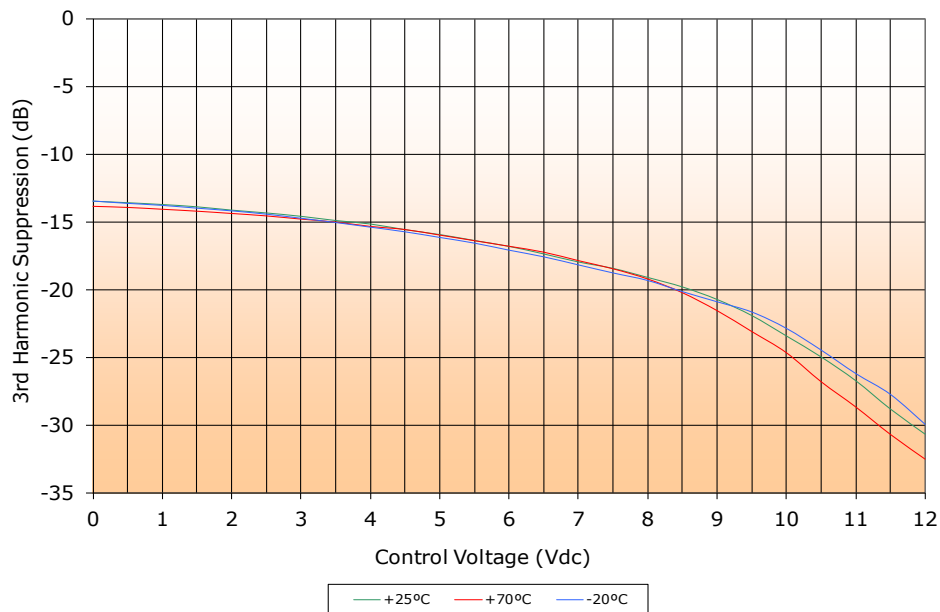
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