

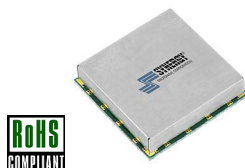
VOLTAGE CONTROLLED SAW OSCILLATOR

SURFACE MOUNT MODEL: HFSO640-5

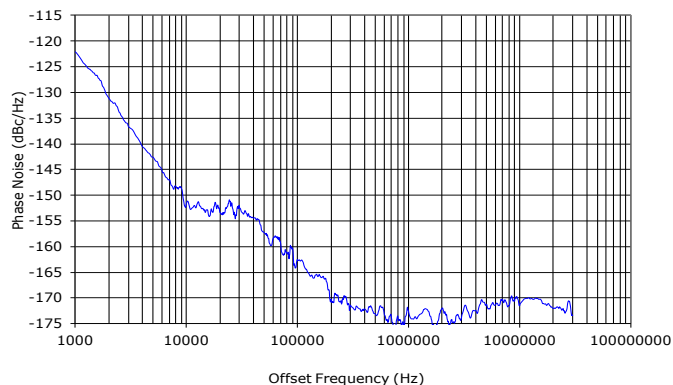
640 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. A 06/26/14)

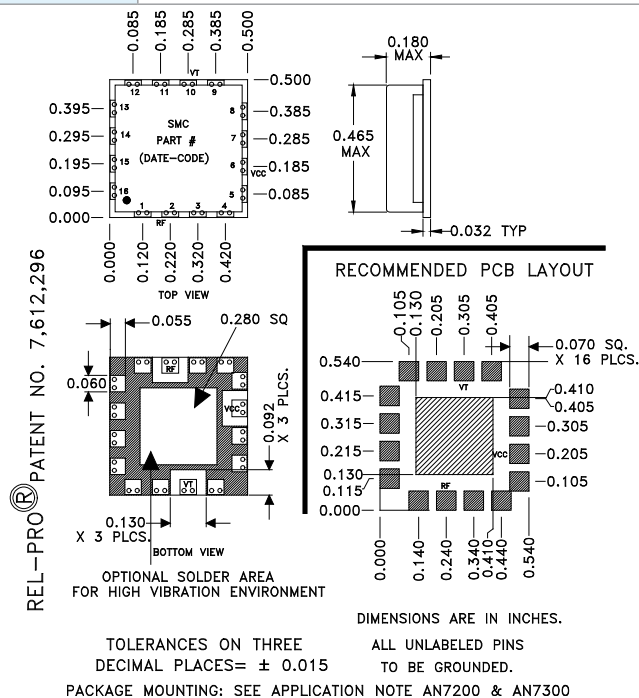
Frequency	640 MHz						
Tuning Voltage	0.5 - 12 VDC						
Bias Voltage (Vcc)	+5 VDC (±5%) @ 35 mA (Max.)						
Output Power	+6 dBm (Min.)						
Tuning Sensitivity	20 kHz/V (Typ.)						
Thermal Drift	80 kHz (Typ.)						
Output Impedance	50 Ohms (Nom.)						
Harmonic Suppression	<table border="1"> <thead> <tr> <th></th><th>dBc (Typ.)</th></tr> </thead> <tbody> <tr> <td>2nd</td><td>23</td></tr> <tr> <td>3rd</td><td>23</td></tr> </tbody> </table>		dBc (Typ.)	2nd	23	3rd	23
	dBc (Typ.)						
2nd	23						
3rd	23						
Frequency Pulling	10 kHz (Typ. @ 1.75:1 VSWR)						
Frequency Pushing	10 kHz/V (Typ.) Vcc ±5%						
Tuning Port Capacitance	130 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>-151</td></tr> <tr> <td>@ 100 kHz</td><td>-162</td></tr> </tbody> </table>	Offset	dBc/Hz (Typ.)	@ 10 kHz	-151	@ 100 kHz	-162
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@ 10 kHz	-151						
@ 100 kHz	-162						
Operating Temperature Range	-20 to +70 °C						

Absolute Maximum Ratings

Storage Temp. Range	-40 to +85 °C
Bias Voltage	+5.5 V
Tuning Voltage	+13 V
DC Voltage Applied to RF Out	± 25 V

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

Package # 278LF

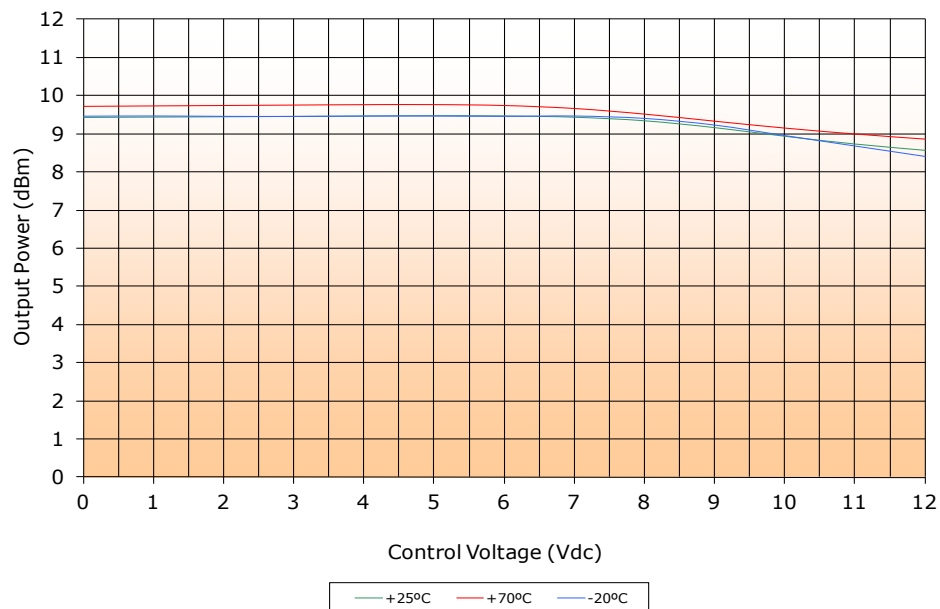
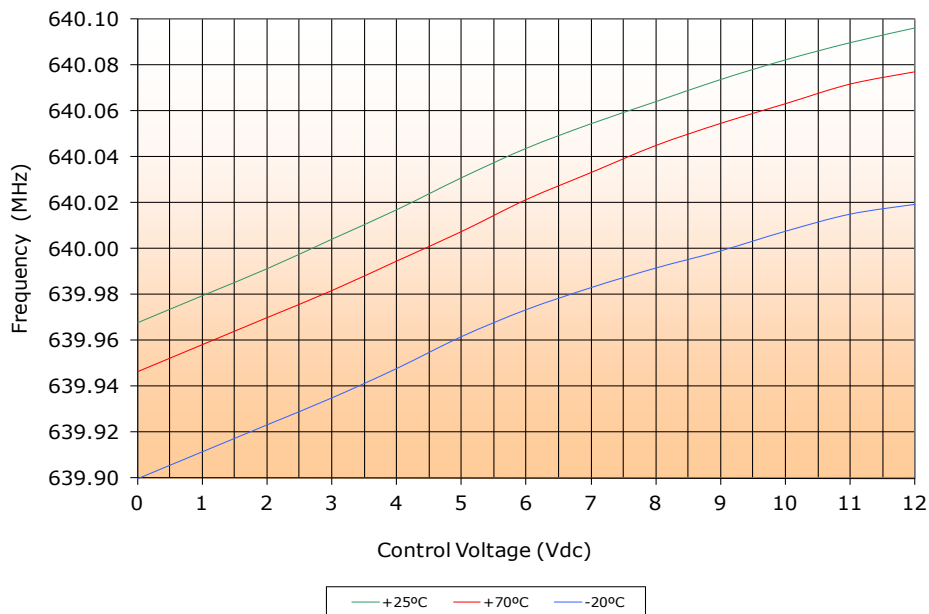


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PERFORMANCE PLOTS



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