

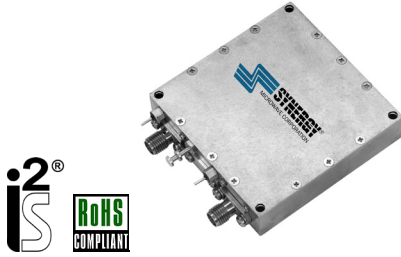
# PHASE LOCKED OSCILLATOR

## CONNECTORIZED MODEL: KSFLO27R5-100-12

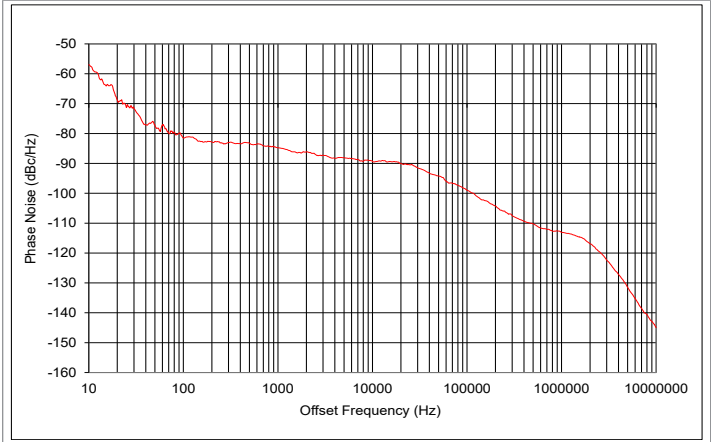
**27.5 GHz**

**FEATURES:**

- ▶ Low Phase Noise Ku Band Source
- ▶ Internal Regulation
- ▶ Small Package

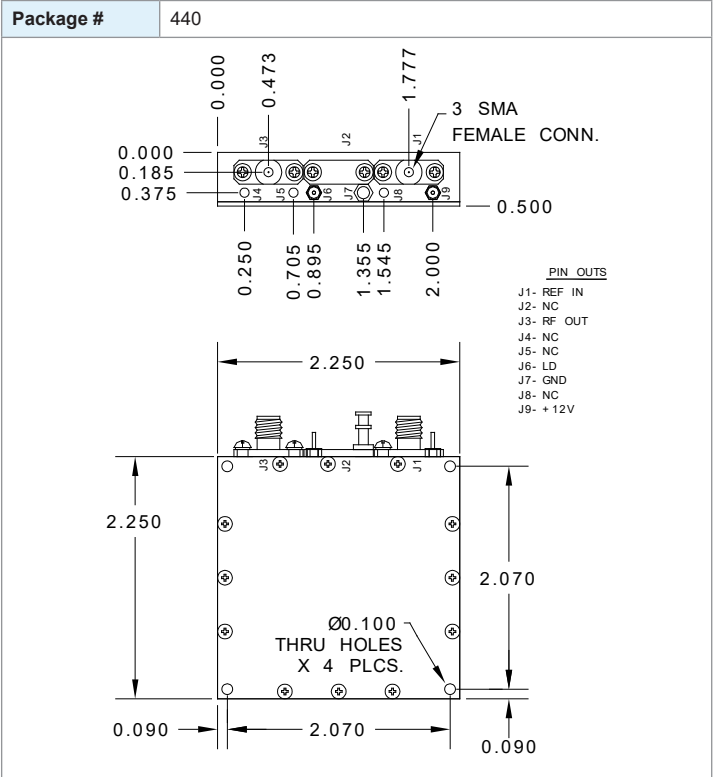


**Phase Noise**



**SPECIFICATION**

Frequency (Fo)	27.5 GHz	
Output Power	≥ 8 dBm	
Reference Input Frequency	100 MHz	
Reference Input Level	-3 to +3 dBm	
Supply Voltage	<b>Vcc (Vdc)</b>	<b>Icc (mA Max.)</b>
	+12	400
Harmonics (2 *Fo)	25 dBc (Min.)	
Sub-Harmonic (3 *Fo)	27 dBc (Min.)	
Output Spurious	60 dBc (Min.)	
Reference Sideband	60 dBc (Min.)	
Output Load Impedance	50 Ohms (Nom.)	
Typical Phase Noise	<b>Offset</b>	<b>Phase Noise</b>
	@ 1 kHz	-85 dBc/Hz
	@ 10 kHz	-88 dBc/Hz
	@ 100 kHz	-98 dBc/Hz
	@ 1 MHz	-112 dBc/Hz
	@ 10 MHz	-145 dBc/Hz
Lock Detect Indicator	CMOS High (Lock), CMOS Low (Unlock)	
* Operating Temperature Range	-20 to +50 °C	
Storage Temperature Range	-40 to +85 °C	
* Requires adequate heat sinking to avoid exceeding the maximum operating temperature.		

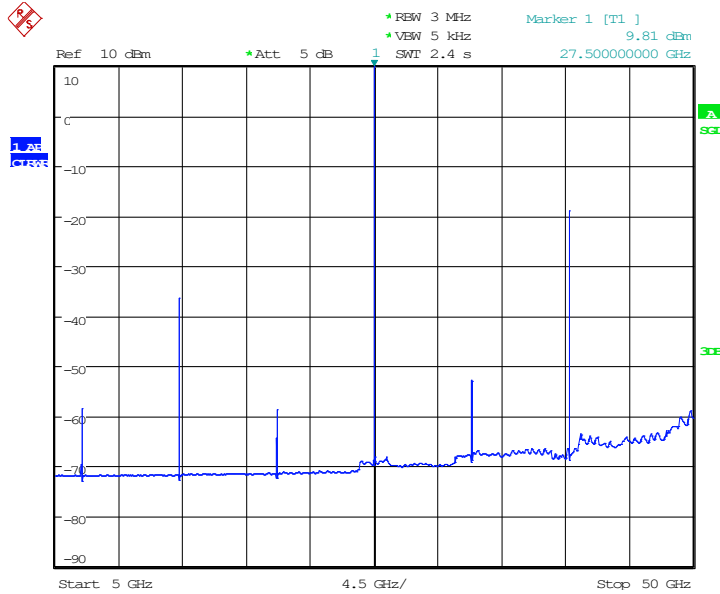


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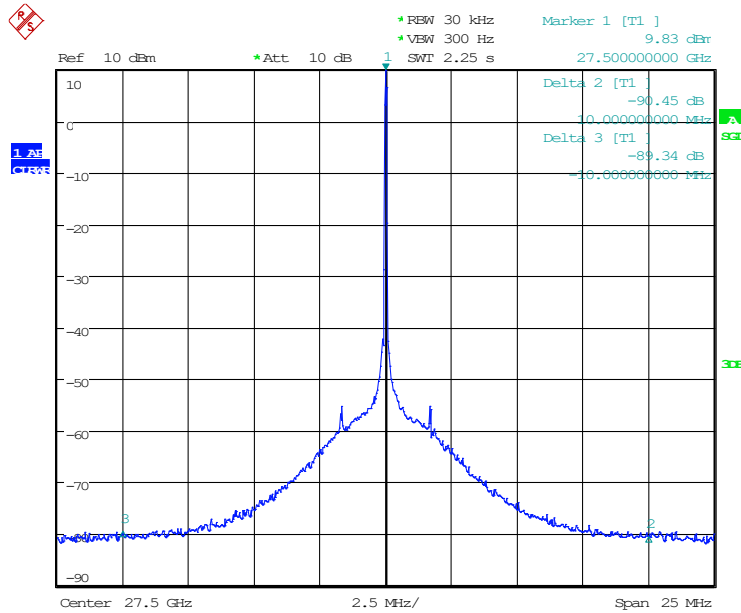
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27.5 GHz

### HARMONIC & SUB-HARMONIC SUPPRESSION



### OUTPUT SPURIOUS SUPPRESSION



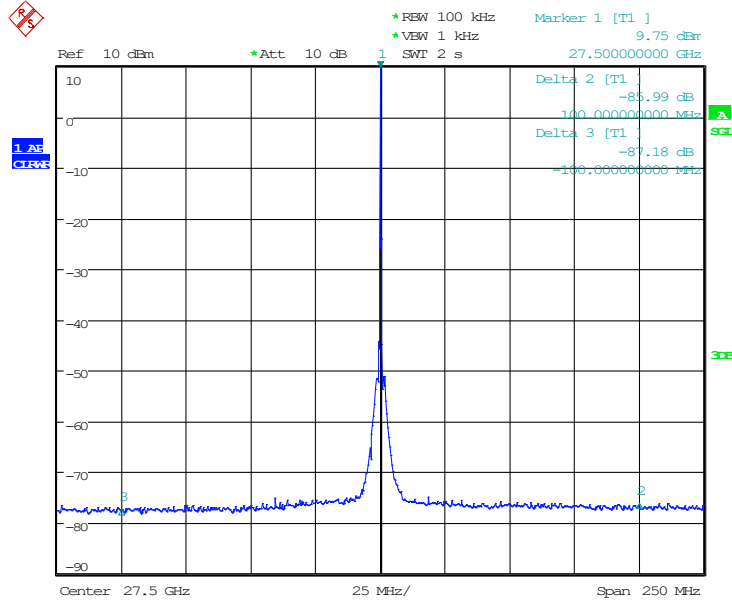
PERFORMANCE PLOTS

# PHASE LOCKED OSCILLATOR

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27.5 GHz

### REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS