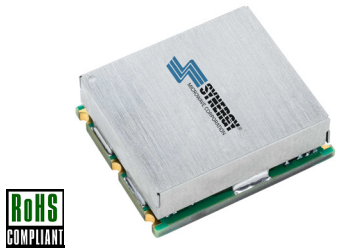
REFERENCE PHASE LOCKED TRANSLATOR SURFACE MOUNT MODEL: VFCTS125-10

FIXED FREQUENCY — 125 MHz

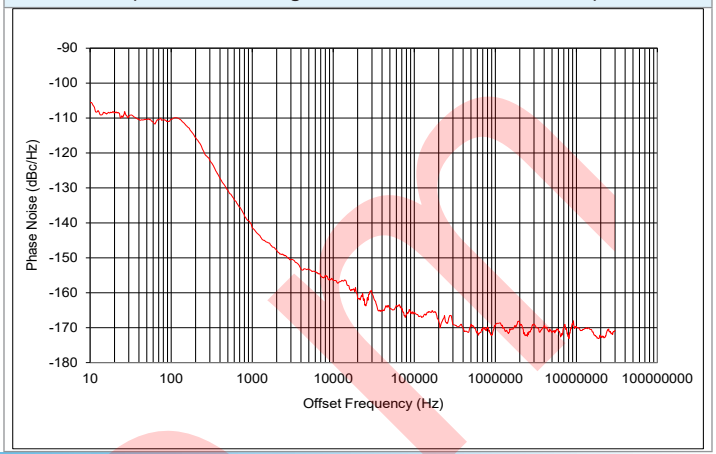
FEATURES:

- Ultra-Low Phase Noise
- No Programming Required
- Small Size, Surface Mount



RoHS COMPLIANT

Phase Noise (Measured with Agilent E5052A or R&S FSUP-26/27)

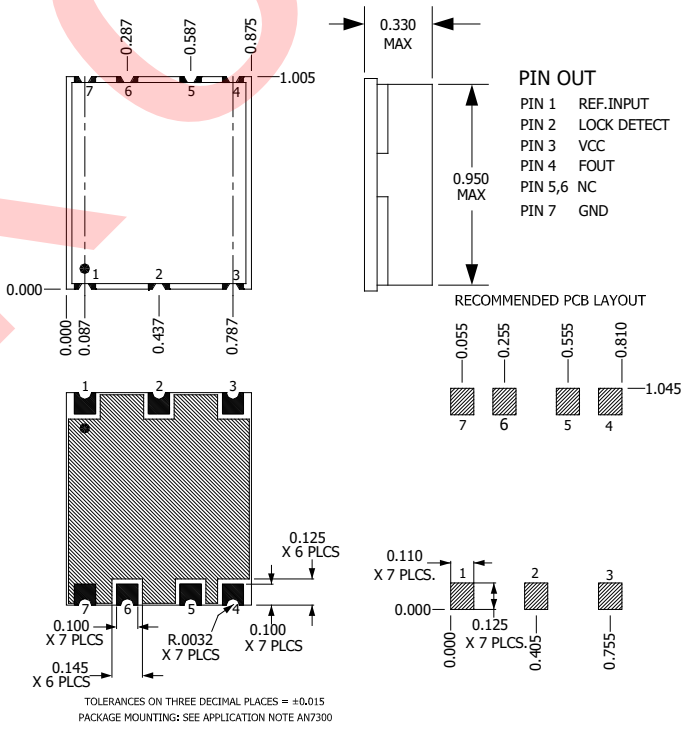


SPECIFICATIONS

Frequency	125 MHz
Reference Input Frequency	10 MHz [1]
Reference Input Voltage	1.0 to 3.3 V p-p
Bias Voltage (Vcc)	+5 Vdc @ 85 mA (max.)
Output Power	8 dBm (Min.)
Modulation Bandwidth	30 Hz (Typ.)
Harmonic Suppression	28 dB (Typ.)
Output Impedance	50 Ohms (Nom.)
Lock Detect Indicator	LVCMOS 3.3 V (logic: 1 = lock, 0 = unlock)
Typical Phase Noise	**Offset** / **Phase Noise** @ 100 Hz / -110 dBc/Hz @ 1 kHz / -140 dBc/Hz @ 10 kHz / -156 dBc/Hz @ 100 kHz / -165 dBc/Hz
Operating Temperature Range	-40 to +85 °C

[1] External 10 MHz reference sources should have phase noise better than -138 dBc/Hz @ 50 Hz offset to achieve published specifications.

Package # 453



Absolute Maximum Ratings

Storage Temp. Range	-40 to +85 ºC
Bias Voltage (Vcc)	+5.25 V

Patent : http://www.synergymwave.com/patents

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SYNERGY® MICROWAVE CORPORATION

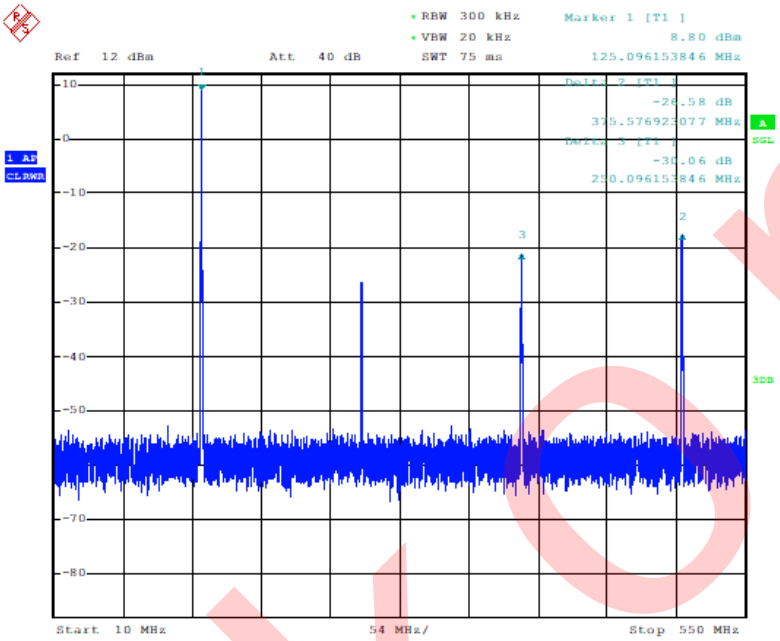
REFERENCE PHASE LOCKED TRANSLATOR
SURFACE MOUNT MODEL: VFCTS125-10

FIXED FREQUENCY — 125 MHz

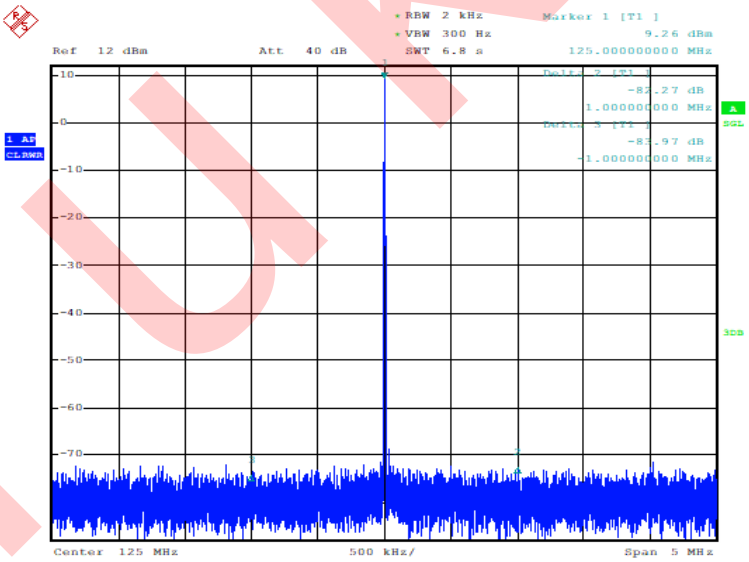
PERFORMANCE PLOTS

@ 25 ºC

HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



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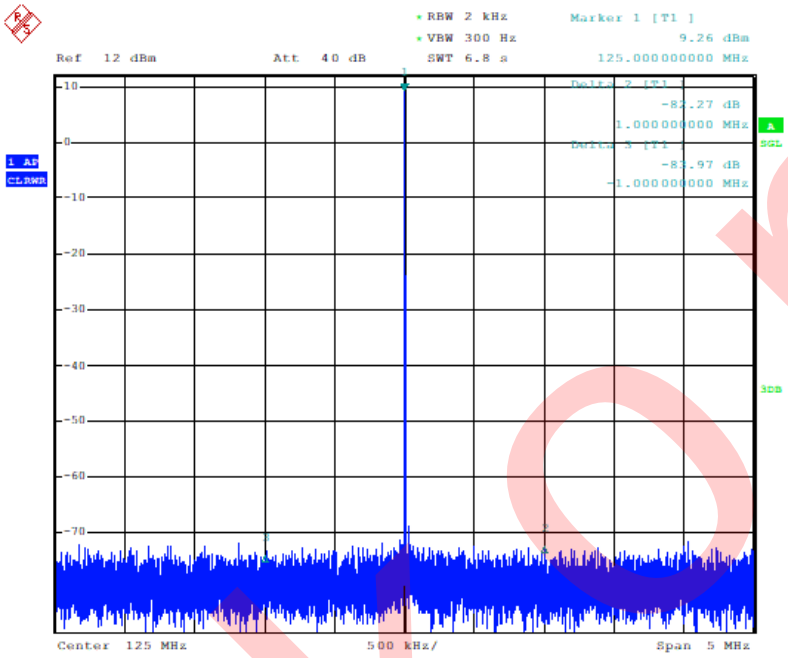

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