

Synthesizer, 2.0-5.1 GHz, 0dBm, 5Volts

code-L1

100kHz Step Size, Surface Mount, 10 MHz External Reference
Variable Frequency: Select any 100MHz Bandwidth between 2.0-5.1GHz
RSYNTH-L100-2.0-5.1(100M)-100kHz-0d5v-ER10M-S-L1

Raditek's L100 Series synthesizers are precision microwave signal sources, used for ISM, U-NII etc. Available in 100MHz Bandwidths from 2.0 to 5.1GHz, includes an internal 10MHz TCXO reference. Optimum phase noise is obtained with an internal, high Q, CRO, with phase noise $\leq -100\text{dBc/Hz}$ at 10 KHz offset. Slightly lower Q oscillators are used for broader tuning bandwidths, and still have excellent phase noise.



Features:

- Attractive price, Compact Size --- 15L x 15W x 5H mm
- Wide Frequency Range ---- 2MHz ~ 5 GHz
- Low Phase Noise ---- Below - 90dBc/ Hz at 10 KHz offset

Order Examples: RSYNTH-L100-150-250M-100kHz-0d5V-ER10M-S-L1

Electrical Performance		Units
Output Frequency Range :	2.0-5.1	GHz
Band Width	100	MHz max.
Step Size, Min	100	kHz
RF Output Power :	0	dBm Min
Phase Comparison Frequency :	Step= 1MHz	fo=5100MHz
SSB Phase Noise		
• 1 kHz offset :	≤ -80	dBc/Hz
• 10 kHz offset :	≤ -85	dBc/Hz
• 100 kHz offset :	≤ -110	dBc/Hz
• 1 MHz offset :	≤ -120	dBc/Hz
Spurious:		
• Harmonics	-20	dBc/Hz
• Non-Harmonics	-65	dBc/Hz
Control	3 Wires Serial Data Clock, Strobe, (ADF 4106 DATA FORMAT)	
Alarm Out		
• Lock :	TTL-Hi	
• Un-Lock	TTL-Lo	
External Reference :	10 C/N= -140dBc /Hz at 1 KHz offset	MHz 0dBm
DC Bias :	+5V	@50mA Max
Operating Temp. Range :	-20 ~ +70	°C
Package Size	15x15x5	mm

RSYNTH-L100-2.0-5.1(100M)-100k-0d5v-S-L1 Specifications may be subject to change

06/15/08

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ROHS Compliant

RADITEK INC.

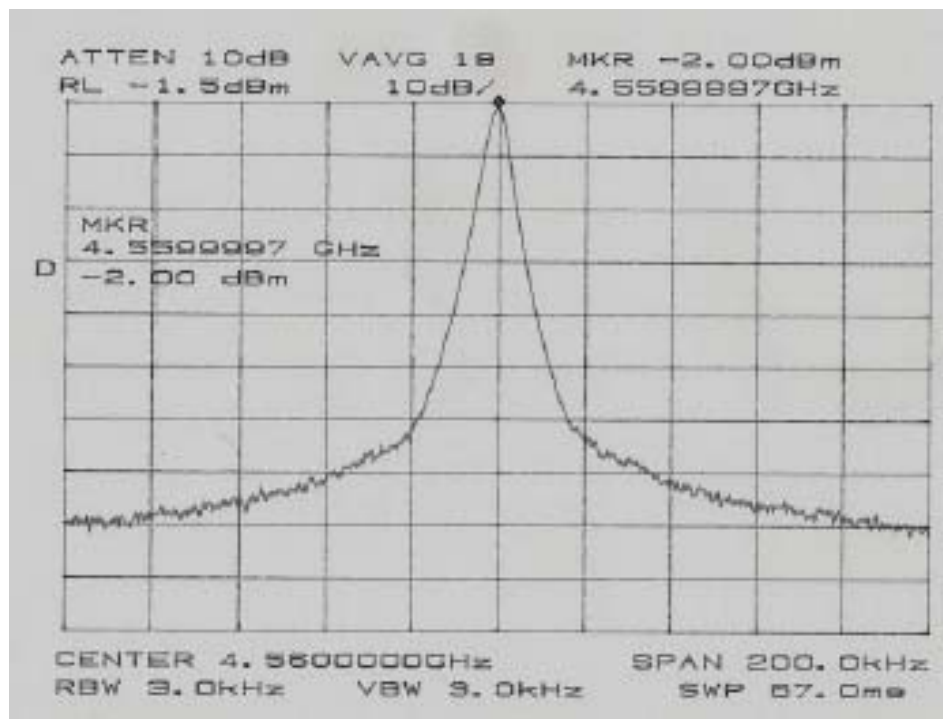
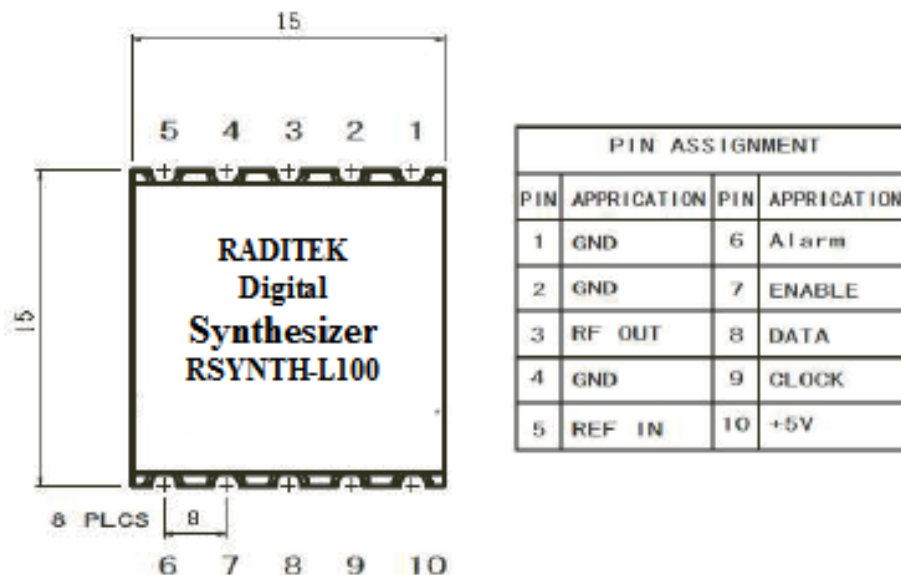
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