

**Synthesizer, 100-4000 MHz, 10dBm, 5Volts**

code-L1

**100kHz Step Size, Surface Mount, 10MHz Internal Reference**

**Variable Frequency: Select any 100MHz Bandwidth between 1000-2900MHz**

**RSYNTH-L70-100-4000M(100M)-100kHz-10d5v-IR10M-S-L1**

RSYNTH-L70 Series synthesizers are precision Microwave Signal Sources, used for ISM, U-NII etc., within any 100MHz band, from 100MHz to 4GHz. 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 ----- 35L × 20W × 5H mm
- Build-in, Reference TCXO ----- 10MHz, C/N= -150dBc/Hz
- Wide Frequency Range ----- 100MHz ~ 4000MHz
- Low Phase Noise ----- Below -100dBc/Hz at 10KHz offset



**Order Examples: RSYNTH-L70-100-200M-100kHz-10d5v-IR10M-S-L1**

Electrical Performance		Units
Output Frequency Range :	100-4000	MHz
Band Width	100	MHz Max
Step Size, Min	100	kHz
RF Output Power :	+10	dBm Min
Phase Noise:		
• 1 kHz offset :	$\leq -80$	dBc/Hz
• 10 kHz offset :	$\leq -100$	dBc/Hz
• 100 kHz offset :	$\leq -120$	dBc/Hz
• 1 MHz offset :	$\leq -130$	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	
Internal Reference :	10	MHz TCXO
Frequency Stability :	$\leq \pm 1$	ppm at -20°C to +55°C
	$\leq \pm 2.5$	ppm at -30°C to +70°C
	$\leq \pm 5.0$	ppm at -40°C to +80°C
DC Bias :	+5V	@ 60mA Max
Operating Temp. Range :	-20 ~ +70	°C

**RSYNTH-L70-100-4000M(100M)-100kHz-10d5v-IR10M-S-L1 Specifications may be subject to change**

**11/20/08**

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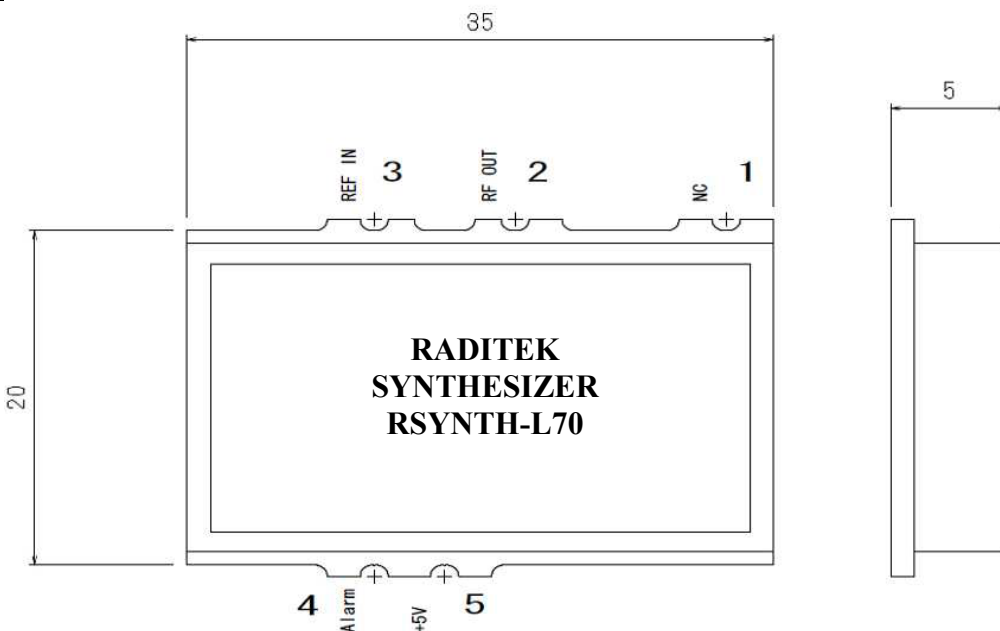
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**RSYNTH-L70-100-4000M(100M)-100kHz-10d5v-IR10M-S-L1**

Electrical Performance		Units
Package Size:	35x20x5	mm



**ROHS Compliant**

# RADITEK INC.

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