

Synthesizer, 6.3-10.6GHz, 14dBm, +12Volts

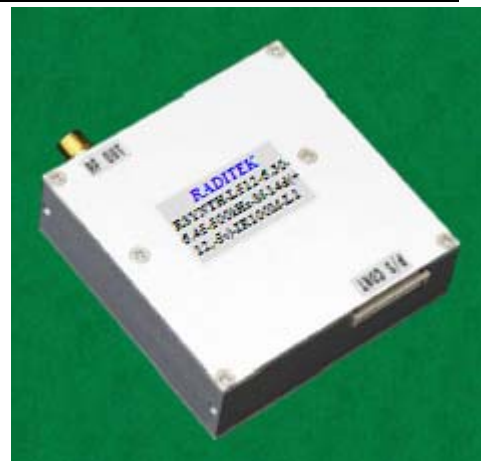
code-L1

4.5MHz Step Size, SMA Female Connectors, 100 MHz Internal Reference
Variable Frequency: Select any 200MHz Bandwidth between 6.3-10.6GHz
RSYNTH-L512-6.3-10.6(200M)-500kHz-Sf-14d12v-IR100M-L1

Raditek's L512 Series Synthesizers have been developed for Portable Mobile and various OFDM Microwave Transmission Systems. The Low Phase Noise, -100dBc/Hz at 10 KHz offset and High Frequency Accuracy, ±1ppm at -10~+50°C can be achieved by Raditek's unique VCO's and TCXOs technologies. Also, many kind of conventional Phase Locked DROs as a Single Frequency Sources can be replaced by this compact Microwave Frequency Synthesizers.

Features:

- Super Compact Size..... 60(2.36') x 60(2.36') x 20(0.78') mm
- Internal Reference Build-IN 100MHz TCXO
- Extremely Low Phase Noise..... -100dBc/Hz at 10KHz offset
- High Frequency Resolution.....Step Size : 500KHz Step



Order Examples: RSYNTH-L512-6.30-6.45-500kHz-Sf-14d12-IR100M-L1

Electrical Performance			Units
Band	C (D, Frequency Ranges Available)	E (F, Frequency Ranges Available)	
Frequency Range :	6.3-6.45 6.75-6.99	10.1-10.3 10.4-10.6	GHz
Step Size	4.5 (500KHz)	4.5 (500KHz)	MHz
RF Output Power :	+14 ±2dB	+14 ±2dB	dBm
SSB Phase Noise			
• 100 Hz offset :	≤ -80	≤ -75	dBc/Hz
• 1 kHz offset :	≤ -85	≤ -85	dBc/Hz
• 10 kHz offset :	≤ -90	≤ -88	dBc/Hz
• 100 kHz offset :	≤ -105	≤ -105	dBc/Hz
• 1 MHz offset :	≤ -130	≤ -130	dBc/Hz
Spurious:			
• Harmonics	≤ -35	≤ -35	dBc
• Non-Harmonics	≤ -65	≤ -65	dBc
Frequency Stability :	≤ ±1	≤ ±1	ppm @ -10 ~+50°C
	≤ ±2	≤ ±2	ppm @ -20 ~+60°C
	≤ ±5	≤ ±5	ppm @ -30 ~+70°C
Frequency Control	Parallel 7 bits, TTL Strobe 1 bits ,TTL	Parallel 7 bits, TTL Strobe 1 bits ,TTL	
Alarm Out			
• Lock :	TTL-Hi	TTL-Hi	

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Electrical Performance			Units
• Un-Lock :	TTL-Lo	TTL-Lo	
Lock up Time	≤ 20	≤ 20	msec
DC Bias	300	300	mA Max +12V
Environmental Conditions			
• Guarantee Performance	-10 ~ +50	-10 ~ +50	°C
• Guarantee Operating	-20 ~ +70	-20 ~ +70	°C
Package and Connectors			
• Dimensions	60(W)x60(L)x-21(H)	60(W)x60(L)x-21(H)	mm
• Weight	130	130	g Max.
Connectors:			
• RF	SMA (F)	SMA (F)	
• Control, DC- Bias	DF13-14P-1.25DS(Hirose)	DF13-14P-1.25DS(Hirose)	

1930.5MHz 2UNITS METHOD

