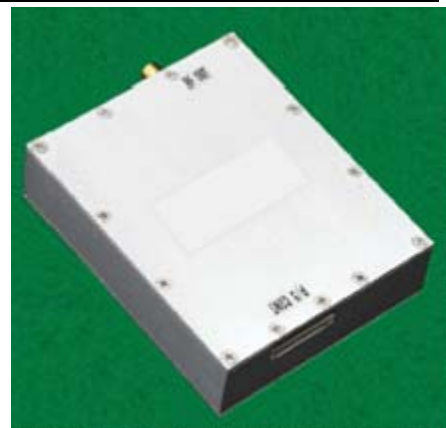


**Synthesizer, 4.9-5.6 GHz, 14dBm, +12,-5Volts**  
**500kHz Step Size, SMA Female Connectors**

code-L1

**Variable Frequency: Select C-Band 4.9-5.1GHz or D-Band 5.4-5.6GHz, 500kHz Step Size**  
**RSYNTH-L507-4.9-5.6-500kHz-Sf-14d(+12,-5v)-L1**

Raditek's L507 Series covers 2-Frequency Ranges in C and D Bands and has been developed for a portable OFDM Microwave Link (FPU) of Digital TV Broadcasting Systems. Applying our unique Dual VCO, 2-Frequency Ranges 4.9~5.1GHz & 5.4~5.6GHz can be covered by one DVCO in a compact package. Also, High Frequency stabilities can be achieved by the Built-in 40MHz TCXO



**Features:**

- Low Cost, High Performance----- 65(2.56') x80(3.15') x 21(0.83') mm
- High Frequency Stabilities----- ±0.5ppm Max at -20 ~+70°C
- Covered 2-Frequency Range----- 4.9~5.1GHz & 5.4~5.6GHz
- Very Low Phase Noise----- -90dBc/Hz at 10kHz offset

☛ **Order Examples: RSYNTH-L507-4.9-5.1-500kHz-Sf-14d(+12,-5v)-L1**

Electrical Performance		Units
Frequency Range :		
• Band - C	4.9~5.1	GHz
• Band - D	5.4~5.6 (Other frequency ranges Available)	GHz
Step Size, Min	4.5MHz(500kHz)	kHz
RF Output Power :	+14dBm ±2dB	dBm
SSB Phase Noise		
• 100Hz offset	≤-60	dBc/Hz
• 1 kHz offset :	≤-85	dBc/Hz
• 10 kHz offset :	≤-90	dBc/Hz
• 100 kHz offset :	≤-105	dBc/Hz
• 1 MHz offset :	≤-130	dBc/Hz
Spurious:		
• Harmonics	≤-35	dBc
• Non-Harmonics	≤-65	dBc
Control	Parallel 7 bits, TTL Strobe 1 bits, TTL	
Alarm Out		
• Lock :	TTL-Hi	
• Un-Lock :	TTL-Lo	
Lock up Time	≤ 20	msec
Frequency Stability :	≤± 2x10 <sup>-7</sup>	ppm at -10 to +70°C

**Synthesizer, 4.9-5.6 GHz, 14dBm, +12,-5Volts**  
**500kHz Step Size, SMA Female Connectors**

code-L1

**Variable Frequency: Select C-Band 4.9-5.1GHz or D-Band 5.4-5.6GHz, 500kHz Step Size**  
**RSYNTH-L507-4.9-5.6-500kHz-Sf-14d(+12,-5v)-L1**

Electrical Performance		Units
DC Bias :	400	mA Max at +12V
	40	mA Max at -5V
Environmental Conditions		
• Guarantee Performance	-10 ~ +50	°C
• Guarantee Operating	-20 ~+70	°C
Package Connectors		
• Dimensions	65x80x21	mm
• Weight	250	g Max.
• Connectors RF Control	SMA (F)	
• DC- Bias	DF13-14P-1.25DS(Hirose)	

