

Synthesizer, 25.919-26.481GHz, 12dBm, +10Volts

code-L1

500kHz Step Size, SMA Female Connectors, 10 MHz External Reference

Variable Frequency: Select any 12MHz Bandwidth between 25.919-26.481GHz

RSYNTH-L510-25.919-26.481(12M)-500kHz-Sf-12d10v-ER10M-L1

Raditek's L510 Series is a newly developed 25 GHz Band Direct PLDRO Synthesizer. The company has developed this advanced and powerful Ka-Band Synthesizer by combining its years experience and technologies of extremely low noise DRO and phase lock loops. Without any degradation of the DRO characteristics, the product can be functioned to generate arbitrary frequency in the Ka-Band with a highest frequency resolution at 200 KHz. The typical measured performance data are shown below. This powerful, unique 25 GHz band direct PDRO Frequency Synthesizer can be effectively applied to: many Land Based Digital Microwave Communication Systems; Satellite Microwave Communication Systems and Digital TV Broadcast Systems including STL & TTL



Order Examples: RSYNTH-L510-25.919-25.931-500kHz-Sf-12d10v-ER10M-L1

Electrical Performance		Units
Frequency Range :	25.919~26.481	GHz
Step Size, Min	500	kHz
Bandwidth	12	MHz
RF Output Power :	+12dBm -2dB/+1dB	dBm
SSB Phase Noise		
• 100 Hz offset	≤-70	dBc/Hz
• 1 kHz offset :	≤-90	dBc/Hz
• 10 kHz offset :	≤-95	dBc/Hz
• 100 kHz offset :	≤-105	dBc/Hz
• 1 MHz offset :	≤-130	dBc/Hz
• Spurious:	-60	dBc
	-50	dBc(Sub- Harmonics)
• Harmonics	-35	dBc
Control	Parallel 6 bits, TTL	
Alarm Out		
• Lock :	TTL-Hi	
• Un-Lock :	TTL-Lo	
External .Reference.	10MHz,0dBm-1dB/+3dB@50 ohm C/N=-160dBc/ Hz @1kHz offset	
Frequency Stability :	Same as External Reference	
DC Bias :	300	mA at +10V ±5%
Operating Temperature Range	-20 ~+60	°C
• Size	70x120x26	mm

ROHS Compliant

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