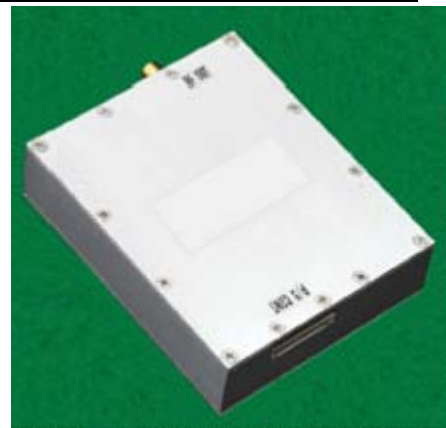


Synthesizer, 8.7-9.2GHz, 14dBm, +12,-5Volts
500kHz Step Size, SMA Female Connectors

code-L1

Variable Frequency: Select C-Band 8.7-8.9GHz or D-Band 9.0-9.2GHz, 500kHz Step Size
RSYNTH-L508-8.7-9.2-500kHz-Sf-14d(+12,-5v)-L1

Raditek's L508 Series covers 2-Frequency ranges in C and D Bands and has been developed for Portable OFDM Microwave Link (FPU) of Digital TV Broadcasting Systems. Using our unique Dual VCO, 2-Frequency Ranges 8.7~8.9 & 9.0~9.2GHz can be covered by one DVCO in a compact package. Also, High Frequency stabilities can be achieved by the Build-in 40MHz TCXO.



Features:

- Low Cost, High Performance -----65(2.56”) x 80(3.15”) x 21(0.83”) mm
- High Frequency Stabilities ----- ±0.5ppm Max at -20 ~+70°
- Covered 2-Frequency Range - ----8.7~8.9 GHz & 9.0~9.2GHz
- Very Low Phase Noise ----- -85dBc/Hz at 10kHz offset

Order Examples: RSYNTH-L508-8.7-8.9-500kHz-Sf-14d(+12,-5v)-L1

Electrical Performance		Units
Frequency Range :		
• Band - C	8.7 ~ 8.9	GHz
• Band - D	9.0 ~ 9.2 (Available at other Frequency)	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 :	≤-80	dBc/Hz
• 10 kHz offset :	≤-95	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	

Synthesizer, 8.7-9.2GHz, 14dBm, +12,-5Volts
500kHz Step Size, SMA Female Connectors

code-L1

Variable Frequency: Select C-Band 8.7-8.9GHz or D-Band 9.0-9.2GHz, 500kHz Step Size
RSYNTH-L508-8.7-9.2-500kHz-Sf-14d(+12,-5v)-L1

Electrical Performance		Units
Lock up Time	≤ 20	msec
Frequency Stability :	≤± 2x10 ⁻⁷	ppm at -10 to +70° C
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)	

