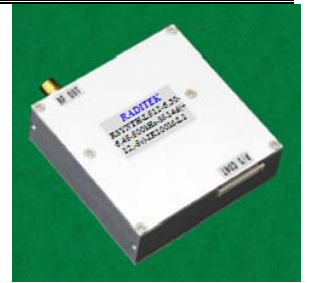


Synthesizer, 2.2-13GHz, Split Bands
SMA Female Connectors, Internal or External Reference
RSYNTH-L522-Series

code-L1

Features:

- **Low Cost, High Performance** ----- 55(2.17") x 56(2.20") x 16.25(0.64") mm
- **Covered Frequency Range** -----2.2-13 GHz
- **High Frequency Resolution** -----Min. step = 100 kHz



Order Examples: RSYNTH-L522-2.2-2.3-100kHz-Sf-12d12v-ER10M-L1

Electrical Performance					Units
Frequency Range :	2.2-2.3	6.7-6.9	9.1-9.3	12-13	GHz
Step Size (Variable)	100kHz	500kHz	500kHz	10MHz	
Number of channels		400	400		dBm (min)
RF Output Power :	+12	+14 ±2dB	+14 ±2dB	+10	dBm (min)
SSB Phase Noise					
• 100 Hz offset :		≤ -75	≤ -70	≤ -70	dBc/Hz
• 1 kHz offset :	≤ -85	≤ -90	≤ -85	≤ -85	dBc/Hz
• 10 kHz offset :	≤ -90	≤ -90	≤ -90	≤ -88	dBc/Hz
• 100 kHz offset :	≤ -110	≤ -105	≤ -105	≤ -105	dBc/Hz
• 1 MHz offset :	≤ -130	≤ -130	≤ -130	≤ -130	dBc/Hz
Spurious:					
• Harmonics	≤ -20	≤ -35	≤ -35	≤ -35	dBc /Hz
• Non-Harmonics	≤ -65	≤ -65	≤ -65	≤ -65	dBc /Hz
Frequency Control	3-Wires 10bits Data, Clock, Strobe, TTL-Level	3-wires, serial data, clock, strobe level: TTL	3-wires, serial data, clock, strobe level: TTL	Parallel 7 bits, TTL Strobe 1 bit, TTL	
Internal Reference		100MHz, TCXO	100MHz, TCXO	100MHz, TCXO	
Frequency Stability : @ -20 ~+70°C		≤ ±0.5	≤ ±0.5	≤ ±0.5	ppm
External Reference	10MHz, 0dBm C/N=-150dBc/Hz at 1KHz offset				
Alarm Out					
• Lock :	TTL-Hi	TTL-Hi	TTL-Hi	TTL-Hi	
• Un-Lock :	TTL-Lo	TTL-Lo	TTL-Lo	TTL-Lo	
DC Bias +12V	200	300	300	300	mA Max
Lock up Time		≤ 20	≤ 20	≤ 20	msec
*Vibration	35Gs at 55~2000Hz				
*Shock	MIL-STD-202 Method 213 Condition E				
Operating temperature	-20 ~+55	-20 ~+70	-20 ~+70	-20 ~+70	°C

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Electrical Performance				Units
Dimensions	55(W)x56(L)x16.25(H)			mm
Connectors:				
<ul style="list-style-type: none"> RF Control, DC- Bias 	SMA (F) DF13-14P-1.25DS(Hirose)			

* The Phase Noise of the products will be degraded 10dB approximate under vibrating condition without a shock Isolation Mounter.

DF13-14P-1.25DS (HIROSE)

PIN	ASSIGN	PIN	ASSIGN
1	STROBE	8	A1
2	LOCK ALARM	9	A0
3	A6	10	NC
4	A5	11	+12V
5	A4	12	GND
6	A3	13	NC
7	A2	14	NC

