

Synthesizer, 5.3-26.0 GHz, 14dBm, 12Volts

code-L1

500kHz Step Size, SMA Female Connectors, Internal or External Reference

Variable Frequency: Select any 200MHz Bandwidth between 5.3-26.0GHz

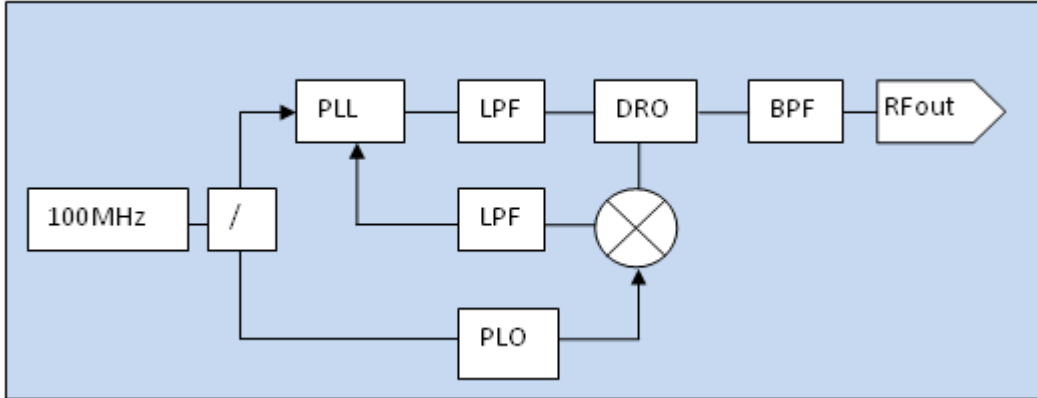
RSYNTH-L101-5.3-26.0(200M)-500k-Sf-14d12v-L1

Synthesizer, Programmable Frequency Step Sizes >500KHz

Internal reference (IR 1ppm (0.1ppm opt) / External Reference (ER100M / ER10-90M in 10MHz increments)

Channel Spacing 0.5MHz, can be customized in FPGA, ie 4.5MHz for TV Channel separation

For UHF TV Channels 13-62, Studio TX link (STL) Field Pick Up (FPU) Bands C,D,E,F *



Order as RSYNTH-Frequency range(x-y GHz)- step size (MHz) –RF Out, Voltage-Reference IR/ER100M / ER10M)

Typical specifications:-		
Bandwidth	<200MHz	MHz
Channel step (minimum 500KHz)	0.5-4.5 MHz	Programmable step size
Internal Reference	100MHz TCXO	(IR TCXO)
	C/N -150dBc/Hz	1KHz offset
Phase noise	-120dBc/Hz	100Hz offset
	-150dBc/Hz	1KHz offset
	-160dBc/Hz	10KHz offset
SSB Phase noise		
	-77dBc/Hz	100Hz offset
	-100dBc/Hz	1KHz offset
	-110dBc/Hz	10KHz offset
	-115dBc/Hz	100KHz offset
	-130dBc/Hz	1MHz offset
Spurious (non harm.)	-65	dBc
Harmonic	-20	dBc
Frequency stability	±1.0 ppm	-10 to 50°C
RF output power	14 ± 2 dBm	
DC bias	+12V @ 500mA	typical
Alarm	TTL Low	Lock is TTL Hi
Package size	60(L) x55(W) x 27(H) 2.36 x 2.16 x 0631.	Mm In

Also available as fixed frequency offering PLDRO like performance with a non harmonically related reference.



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Typical specifications:-				
			5-13GHz	13-26 GHz (with doubler)
1KHz offset				
Internal reference				
C/N	-1KHz offset			
SSB Phase noise				
	100Hz offset	dBc/Hz	-80	-72
	1KHz offset	dBc/Hz	-90	-82
	10KHz offset	dBc/Hz	-90	-82
	100KHz offset	dBc/Hz	-105	-100
	1MHz offset	dBc/Hz	-130	-120
Spurious (non harmonically related.)		dBc	-65	-65
Harmonics		dBc	-20	-20
Frequency stability	-10 to 50°C -20 to 70°C	ppm	±1.0 ±5.0	Opt ± 0.1ppm (height 25mm)
Load VSWR			1:2.0	1:2.0
RF output power		dBm	14 ±2	14 ±2
Alarm on PLL Unlock (In band)			TTL Low	TTL Low Lock is TTL Hi
DC bias			+12V @ 500mA	+12V @ tba mA
Package size	mm in		60(L) x55(W) x 27(H) 2.36 x 2.16 x 0631	60(L) x55(W) x 27(H) 2.36 x 2.16 x 0631
Opt: External reference 10MHz	MHz		10-90 (in 10M inc)	10-90 (in 10M inc) Level 0±3dbm (height 25mm)
Opt: External reference 100MHz	MHz			Level 0±3dbm
Resolution setting	KHz		100	100 Ie 10.1356GHz
Connection Control, Serial / USB			Molex 14pin	Molex 14pin Clock, data, strobe
Connection 12V, Alarm			Filtered feed thru	Filtered feed thru + Ground Lug
Opt Ruggedized			ER model	ER model IR model if shock mounted

ROHS Compliant

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