

# ULTRA BROADBAND FREQUENCY SYNTHESIZER 0.5 TO 20 GHZ

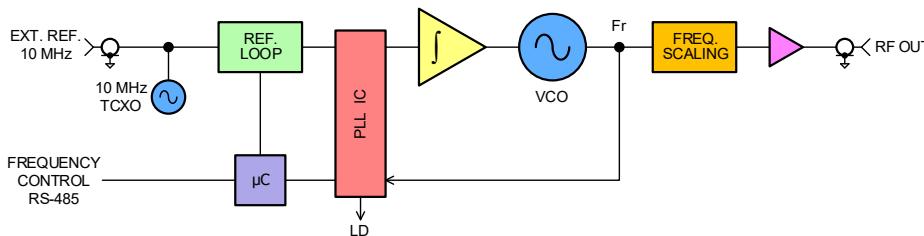


## Model SLSM5-0520 Features

- Frequency range: 500 MHz to 20 GHz
- Low phase noise and spurious
- Frequency control via RS-485 interface
  - Multidrop bus configuration
  - Non-volatile memory
  - USB with optional adapter
- 10 MHz external or internal reference
- Miniature package
- Great value at low cost



## Block Diagram



## Description

The SLSM5-0520 is a new synthesizer design which employs the latest fractional N technology to realize a miniature high performance ultra-broadband frequency synthesizer. This unit covers the entire 500 MHz to 20 GHz band. This versatile synthesizer provides outstanding performance and reliability in a

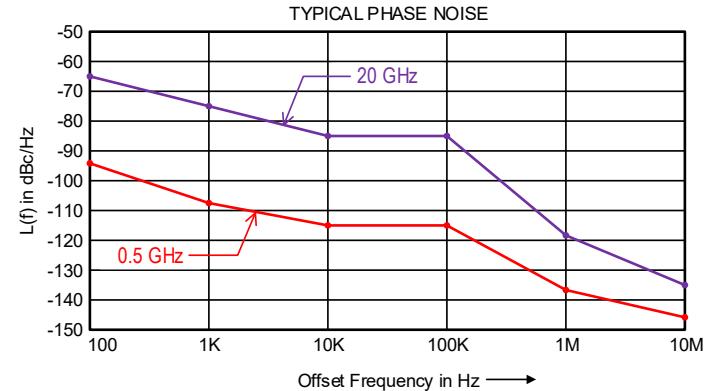
high quality compact package, at a very attractive low cost.

This unit is ideal for applications in communications, radar and instrumentation.

The SLSM5-0520 comes with a custom GUI which allows virtually out of the box operation.

## Key Specifications

Frequency Band:	<b>500 MHz to 20 GHz</b>
Frequency Steps:	1 kHz
Spurious:	-60 dBc
Harmonics (typ.):	-20 dBc
Sub-Harmonics:	-20 dBc (10 to 20 GHz band only)
Output Power (min.):	+13 dBm
Frequency Control:	RS-485 USB via converter
Switching Speed:	<5 msec.
External Reference:	10 MHz
Internal Reference:	±0.5 PPM (-10°C to +70°C)
Power Requirements:	+5.0 Vdc @ 1 Amp
Temperature Range:	-10°C to +70°C
Size:	2.50" x 2.50" x 0.63"



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