

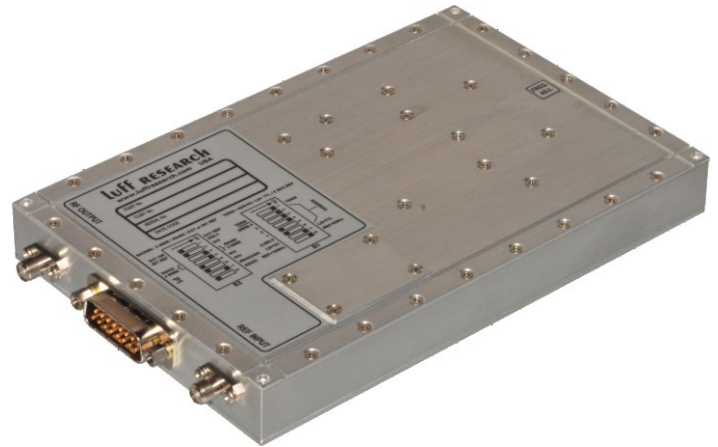
FREQUENCY SYNTHESIZERS

S, C, X & Ku BANDS

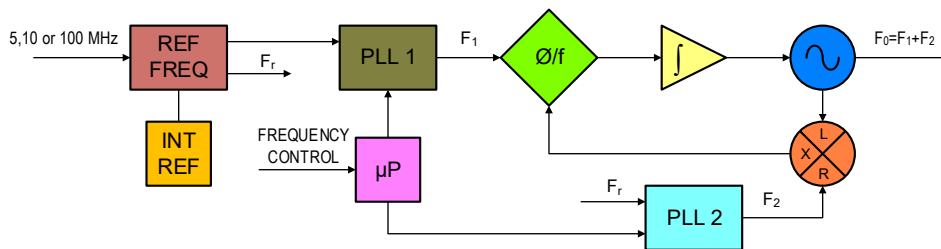


Models TLSD & TLSE Features

- Output frequency in bands to 26.5 GHz
- Low phase noise and spurious
- Frequency control via RS-232/422/485
 - Multidrop bus configuration
 - USB with optional adapter
- Reference frequencies: 5, 10, 100 MHz external or internal reference (± 0.5 PPM)
- Reliable field proven design
- EMI enclosure
- Cost effective product



Block Diagram



Description

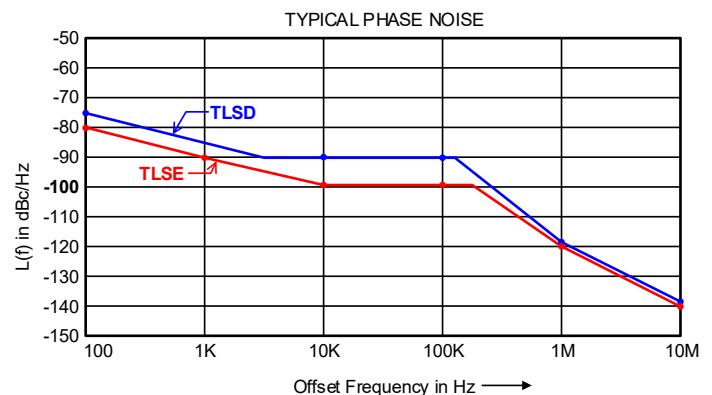
The TLSD & TLSE are improved high performance frequency synthesizers ideal for many **SatCom**, **telecommunication** and **instrumentation** applications. The input reference frequencies are either 5, 10 or 100 MHz. Additionally, the synthesizers are configured to clean-up the input reference signal. With no input present the unit switches automatically to the internal reference.

The frequency control is via standard industrial busses and has a multi-drop capability.

These designs are field proven and have been deployed in critical applications throughout the world. The TLSD offers excellent performance and value while the TLSE offers even better phase noise and spectral quality.

Key Specifications

Output In Bands:	to 26.5 GHz
Frequency Steps:	100 kHz
Spurious (max.):	-60 dBc
Harmonics (typ.):	-20 dBc
Output Power (min.):	+13 dBm
Frequency Control:	RS-232/422/485
Switching Speed (typ.):	<10 msec.
External Reference:	5, 10 or 100 MHz
Internal Reference:	± 0.5 PPM (-10°C to $+70^{\circ}\text{C}$)
Power Requirements:	+5.2 Vdc @ 650 mA +15.0 Vdc @ 150 mA
Temperature Range:	-10°C to $+70^{\circ}\text{C}$
Enclosure:	EMI to -90 dBm
Size:	6.80" x 4.40" x 0.83"



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