

FREQUENCY SYNTHESIZERS

NEW & IMPROVED

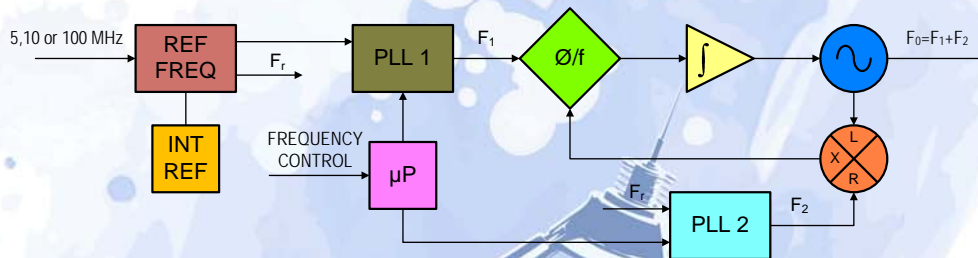
S, C, X & Ku BANDS

Model TLSE Features

- Output frequency in bands up to 25 GHz
- Low phase noise, spurious and microphonics
- Reference frequencies: 5, 10 or 100 MHz or internal reference (± 0.5 PPM)
- Standard frequency control options, RS-232/422/485, and multi-drop capable
- Reliable field proven design
- EMI enclosure
- Cost effective product



Block Diagram



Description

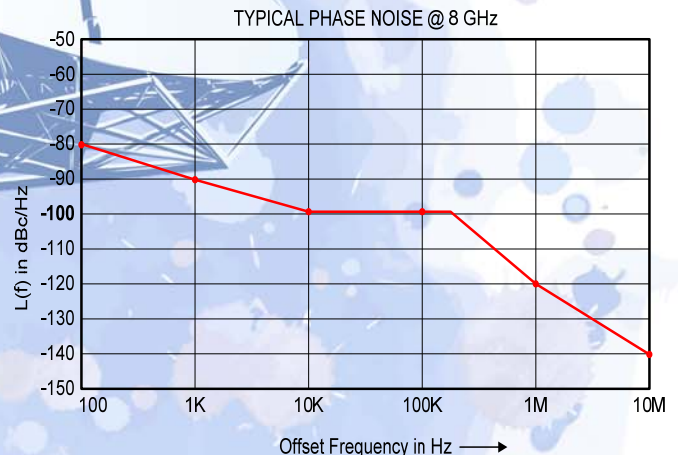
The TLSE is an improved high performance frequency synthesizer ideal for many **SatCom**, **telecommunication** and **instrumentation** applications. This synthesizer's frequency control is via standard industrial busses and has multi-drop capabilities. The input reference frequencies are either 5, 10 or 100 MHz. Additionally, the synthesizer

circuitry cleans-up the input reference signal. With no input present the unit switches automatically to the internal reference.

This design is field proven and has been deployed in critical applications throughout the world. The TLSE offers excellent value providing great performance at a low cost.

TLSE Key Specifications

Output In Bands:	to 25 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 $+70^{\circ}\text{C}$)
Alarm:	Open Collector or TTL
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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