

Frequency Synthesizer

16 Independent Outputs/0.2-16G/CW/Touchscreen

TLFS-0.2G16G-2-LAN

TURFS-0.2G16G2LAN features excellent signal quality, accurate signal levels, and a wide output power range, delivering a maximum output power of up to 20 dBm over the 0.2 GHz to 16 GHz frequency band. Equipped with a touchscreen interface, this instrument meets the stringent test requirements for communications, radar and related applications.

Features:

- RF coverage: 0.2 to 16GHz
- Output Power: 20dBm
- Great Spurious
- 16 Independent Outputs

Applications:

- Defense & federal communications
- Instrumentations

Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|------------------------------------|-----|------|-----|--------|
| External Reference Input Frequency | | 10 | | MHz |
| External Reference Input Power | 2 | 5 | 8 | dBm |
| External Reference Phase Noise | | -150 | | dBc/Hz |
| Output Frequency Range | 0.2 | | 16 | GHz |
| Frequency Step | | 10 | | KHz |
| Frequency Hopping Time | | 200 | | us |
| Output Power | -20 | | +20 | dBm |
| Output Power Step | | 0.2 | | dB |
| Output Power Flatness | | ±1 | | dB |
| Frequency Stability | | ±0.2 | | ppm |
| Frequency Accuracy | | ±1 | | ppb |
| Spurious | | -60 | | dBc |
| Harmonic@Pout=+20dBm | | -20 | | dBc |

Electrical Characteristics:

| Parameter | | Min | Typ | Max | Units |
|---------------------------|---------|---|------|-----|--------|
| Phase noise | @100Hz | | -80 | | dBc/HZ |
| | @1KHz | | -85 | | |
| | @10KHz | | -90 | | |
| | @100KHz | | -95 | | |
| | @1MHz | | -110 | | |
| Number of output channels | | 2(Shared internal/external reference clock) | | | |
| Control Mode | | RJ45(Ethernet port) | | | |
| Impedance | | | 50 | | Ohms |

Mechanical Specifications:

| Parameter | Value | Units |
|------------------|-------------|-------|
| Output Connector | SMA Female | |
| Power Supply | 85~264V AC | |
| Size | 415x290x122 | mm |

Outline Drawing:

Unit:mm

Environmental Conditions:

| Parameter | Min | Typ | Max | Units |
|---------------------------------|---|-----|-----|-------|
| Operating Temperature | -10 | | +65 | °C |
| Non-operating Temperature | -45 | | +85 | °C |
| Relative humidity | | 95 | | % |
| Altitude | 10,000 | | | feet |
| Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

Ordering Information:

| Base Number | Description | Revision |
|-------------------|--|----------|
| TURFS-0.2G16G2LAN | Frequency Synthesizer,0.2-16G, 2 Independent outputs,CW,Touchscreen | Rev.1.0 |