

TLFS00522-25

50MHz-22.6 GHz Frequency synthesizer, 4 dBm

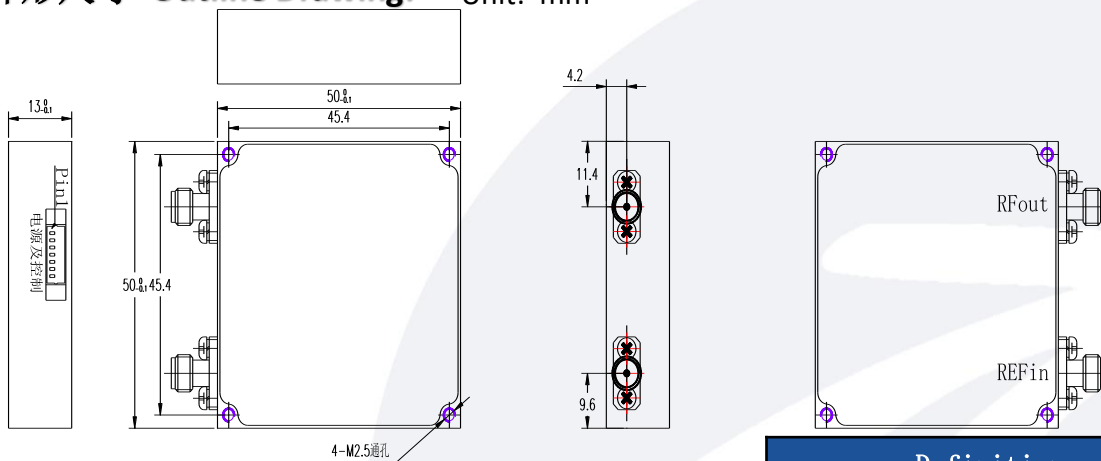
电气参数 Electrical Characteristics:

| 参数Parameter | | 参数Parameter | | | |
|--------------------------------------|---------------|-------------------------|--------|----------|--------|
| Input Frequency 输入频率 (MHz) | | 100 | | | |
| Input Power 输入功率 (dBm) | | 7±3 | | | |
| Input Reference Phase Noise 输入参考相位噪声 | | -155dBc/Hz@1kHz | | | |
| Impedance 输入阻抗 | | 50 Ω | | | |
| Output Frequency 输出频率 (MHz) | | 50MHz-22600MHz | | | |
| Frequency Step 频率步进 (Hz) | | 0.1 | | | |
| Switching time 跳频时间 (uS) | | ≤ 25 us | | | |
| Output Power 输出功率 (dBm) | | 4±5dBm | | | |
| Spurious 杂散 (dBc) | | ≤ -70 (Typ) ≤ -65 (Max) | | | |
| Harmonics 谐波 (dBc) | | ≤ -5 | | | |
| Phase Noise 相位噪声 | dBc/Hz@100Hz | @1GHz | ≤ -110 | @5GHz | ≤ -98 |
| | dBc/Hz@1kHz | | ≤ -130 | | ≤ -117 |
| | dBc/Hz@10kHz | | ≤ -136 | | ≤ -125 |
| | dBc/Hz@100kHz | | ≤ -136 | | ≤ -125 |
| | dBc/Hz@1MHz | | ≤ -136 | | ≤ -125 |
| Phase Noise 相位噪声 | dBc/Hz@100Hz | @10GHz | ≤ -92 | @22.6GHz | ≤ -85 |
| | dBc/Hz@1kHz | | ≤ -110 | | ≤ -104 |
| | dBc/Hz@10kHz | | ≤ -119 | | ≤ -112 |
| | dBc/Hz@100kHz | | ≤ -119 | | ≤ -112 |
| | dBc/Hz@1MHz | | ≤ -119 | | ≤ -112 |
| Power Supply 供电 (V/A) | | +12V/700mA | | | |
| Max Voltage 最大电压 (V) | | +15V | | | |

环境和物理特性 Environmental And Physical Characteristics:

| 参数Parameter | 参数Parameter |
|-------------------------------|--|
| Operating Temperature 操作温度 | -40°C to +70°C |
| Storage Temperature 存储温度 | -55°C to +85°C |
| Vibration(operating)震动 | 10G RMS, 20-2000HZ |
| Shock 冲击 | 50G, 1/2Sine, 12msec |
| Connector射频接口 | Input: SMA Female Output: 2.92 female |
| DC connector直接接口 | 53261-0671-7P (1.25mmpitch) |
| Weight重量 | TBD |

外形尺寸 Outline Drawing: Unit: mm



| Definition | |
|------------|----------------------|
| 引脚 Pin # | 功能 Function |
| 1 | +12V |
| 2 | GND |
| 3 | MOSI (SPI) |
| 4 | LE(SPI) |
| 5 | SMISO(SPI) |
| 6 | SCK (SPI) |
| 7 | LD (High Level Lock) |