

TURSG-0R218152TS delivers high-quality signals, precise signal levels, and a broad output power range with a max power of up to 15 dBm. Equipped with a touchscreen interface, it is well-suited to address the demanding testing requirements of communication, radar, and related fields.

Features:

- Output Frequency : 0.2~18GHz.
- Output Power: -30~+15dBm.
- Switching time: 20ms Max.
- Continuous Wave.

Applications:

- Communication/Radar Systems
- Test Labs

电气特性 Electrical Characteristics:

| 参数 Parameter                                   | Min                                                  | Typ | Max | 单位 Units |
|------------------------------------------------|------------------------------------------------------|-----|-----|----------|
| 输出频率 Output Frequency                          | 0.2                                                  |     | 18  | GHz      |
| 频率步进 Frequency Step                            | 0.1                                                  |     |     | Hz       |
| 频率切换时间<br>Frequency Switching time             |                                                      |     | 20  | ms       |
| 输出功率 Output Power                              | -30                                                  |     | +15 | dBm      |
| 功率步进 Power Step                                | 0.5                                                  |     |     | dB       |
| 杂散抑制 Spurious Rejection                        |                                                      | -65 | -60 | dBc      |
| 谐波抑制 Harmonic Rejection                        |                                                      | -55 | -50 | dBc      |
| 参考模式 Reference Mode                            | 外部/内部参考可切换<br>External/Internal Reference Selectable |     |     |          |
| 外部参考输入频率<br>External Reference Input Frequency | 10                                                   |     |     | MHz      |
| 外部参考输入功率<br>External Reference Input Power     |                                                      | 5   |     | dBm      |
| 参考输出频率<br>Reference Output Frequency           | 100                                                  |     |     | MHz      |
| 参考输出功率<br>Reference Output Power               |                                                      | 10  |     | dBm      |
| 供电 Power Supply (AC)                           |                                                      | 220 |     | V        |

电气特性 Electrical Characteristics:

| 参数 Parameter                | Min | Typ         | Max | 单位 Units |
|-----------------------------|-----|-------------|-----|----------|
| 相位噪声 Phase Noise<br>(1GHz)  |     | -100@100Hz  |     | dBc/Hz   |
|                             |     | -120@1KHz   |     |          |
|                             |     | -130@10kHz  |     |          |
|                             |     | -130@100KHz |     |          |
|                             |     | -130@1MHz   |     |          |
| 相位噪声 Phase Noise<br>(5GHz)  |     | -85@100Hz   |     |          |
|                             |     | -105@1KHz   |     |          |
|                             |     | -115@10kHz  |     |          |
|                             |     | -115@100KHz |     |          |
|                             |     | -115@1MHz   |     |          |
| 相位噪声 Phase Noise<br>(10GHz) |     | -80@100Hz   |     |          |
|                             |     | -100@1KHz   |     |          |
|                             |     | -110@10kHz  |     |          |
|                             |     | -110@100KHz |     |          |
|                             |     | -110@1MHz   |     |          |
| 相位噪声 Phase Noise<br>(18GHz) |     | -75@100Hz   |     |          |
|                             |     | -95@1KHz    |     |          |
|                             |     | -105@10kHz  |     |          |
|                             |     | -105@100KHz |     |          |
|                             |     | -105@1MHz   |     |          |

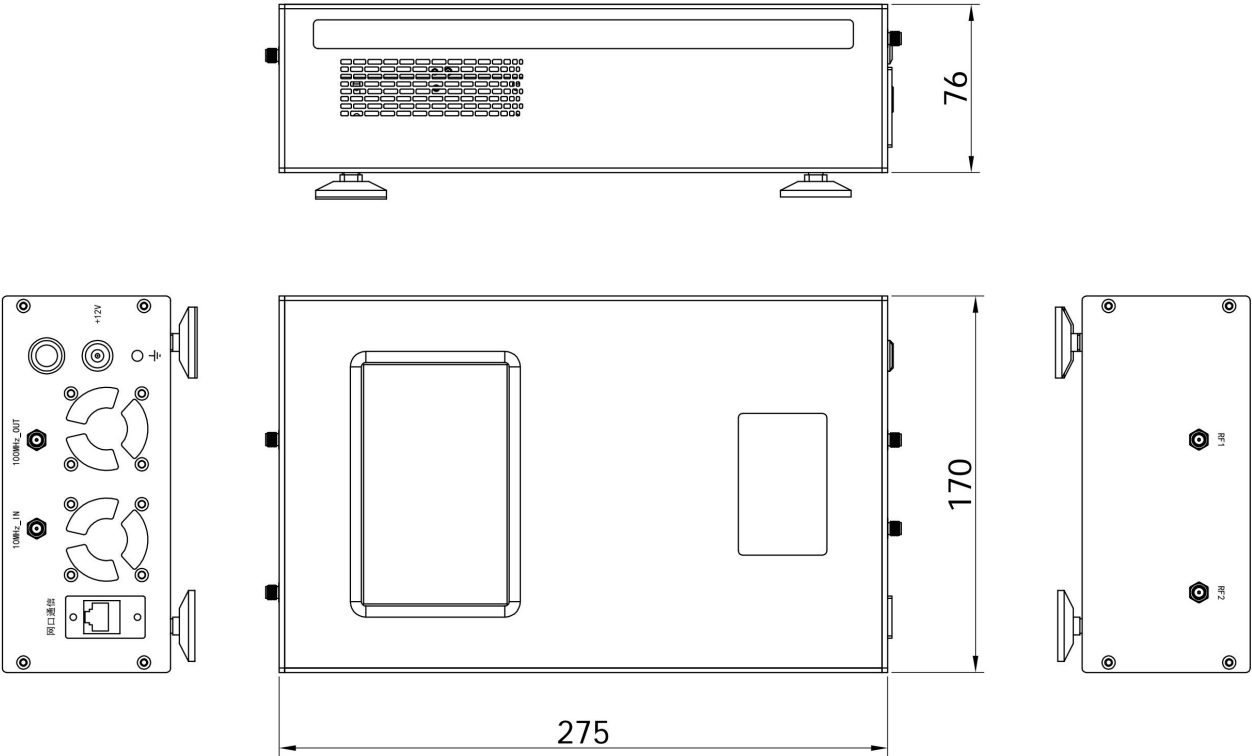
机械特性 Mechanical Specifications:

| 参数 Parameter                 | 指标 Value   | 单位 Units |
|------------------------------|------------|----------|
| RF接口 RF Interface            | SMA Female |          |
| 通信接口 Communication Interface | Ethernet   |          |
| 尺寸 Size                      | 275*170*76 | mm       |
| 重量 Weight                    | TBD        | g        |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter                 | 指标 Value             |
|------------------------------|----------------------|
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing: Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

| 参数 Parameter                       | Min                                | Typ | Max | 单位 Units |
|------------------------------------|------------------------------------|-----|-----|----------|
| 操作温度 Operating Temperature         | -45                                |     | +70 | ℃        |
| 存储温度 Non-operating Temperature     | -55                                |     | +85 | ℃        |
| 相对湿度 Relative humidity             |                                    | 95  |     | %        |
| 海拔 Altitude                        | 10,000                             |     |     | feet     |
| 震动 Shock / Vibration(MIL-STD-810F) | 10G rms (15 degree 2KHz) endurance |     |     |          |
| 冲击 Shock(non operating)            | 50G for 12msc half sin wave        |     |     |          |

订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description                                                             | 版本号 Revision |
|------------------|----------------------------------------------------------------------------|--------------|
| TURSG-0R218152TS | RF Signal Generator<br>0.2~18GHz, CW, Two Independent Outputs, Touchscreen | Rev.1.1      |

Model Nmuber: