

TURDA0.1G34G-636

0.1-34 GHz, 6-Bit, 0.5 dB LSB, 63 dB Range

Feature:

- Ultra Wide Band: 0.1-34GHz
- 6-Bit, 0.5 dB LSB, 63 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

电气特性 Electrical Specifications:

| 参数Parameter | Min | Typ | Max | 单位Units |
|---------------------------|---|------|-----|---------|
| 频率范围 Frequency range | 0.1-34 | | | GHz |
| 插损 Insertion Loss | | 10 | | dB |
| 衰减范围 Attenuation Range | 63 | | | dB |
| 控制位数 Control Bit TTL | 6 | | | Bit |
| 衰减步进 Attenuation Step | 0.5 | | | dB |
| 衰减精度 Attenuation Accuracy | | ±0.5 | | dB |
| 输入驻波 Input VSWR | | 1.8 | | :1 |
| 输出驻波 Output VSWR | | 1.8 | | :1 |
| 最大输入功率 Input Max Power | 25 | | | dBm |
| 直流电压 DC Voltage | | +12 | | V DC |
| 直流电流 DC Supply Current | | 30 | | mA |
| 通信方式 Communication Mode | Serial communication (RS232 level or TTL level is available for choice) | | | |
| 阻抗 Impedance | 50 | | | Ohms |

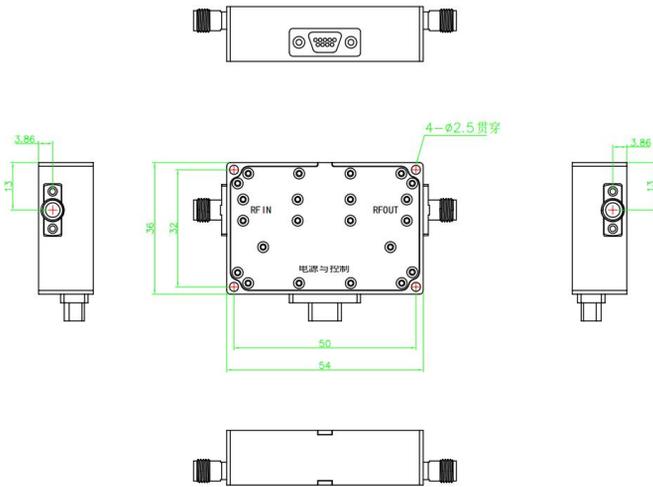
机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位Units |
|---------------------------------|-----------------------------|---------|
| 输入/输出接口 Input /Output Connector | 2.92mm Female/2.92mm Female | |
| DC控制接口 DC control interface | J30J-9ZKP | |
| 尺寸 Size | 54*36*15 | mm |
| 重量 Weight | 100 | g |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter | 指标 Value |
|----------------------------|----------|
| 供电偏置电压 Supply Bias Voltage | +20V |

Unit: mm



| J30J-9ZKP | |
|-----------|------------|
| 引脚Pin# | 功能Function |
| 1 | +12V |
| 2 | GND |
| 3 | TX |
| 4 | RX |
| 5 | GND |
| 6 | +12V |
| 7 | GND |
| 8 | NC |
| 9 | GND |

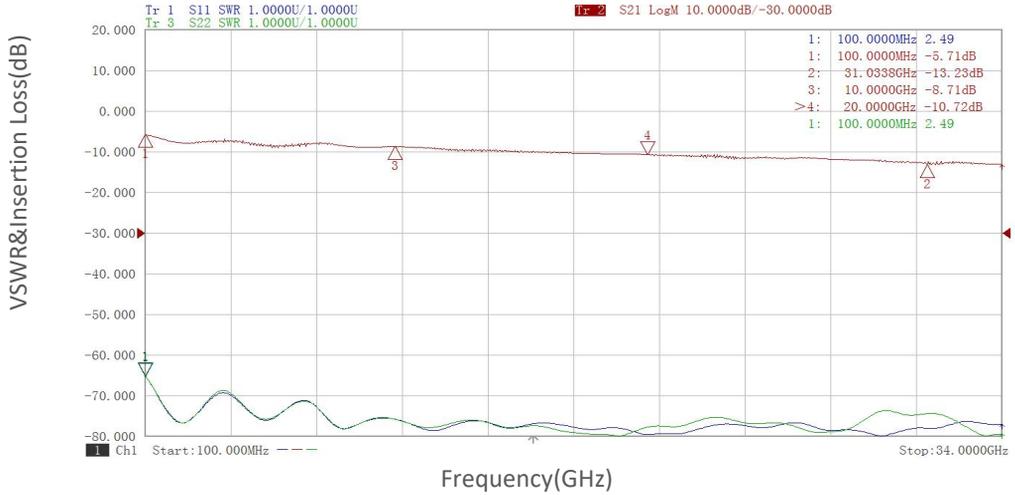
温度环境 Environmental Conditions:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|------------------------------------|---|-----|------|----------|
| 操作温度 Operating Temperature | -25 | | +85 | °C |
| 存储温度 Non-operating Temperature | -55 | | +125 | °C |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 50,000 | | | feet |
| 震动 Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| 冲击 Shock(non operating) | 20G for 11msec half sin wave,3 axis both directions | | | |

订货信息 Ordering Information:

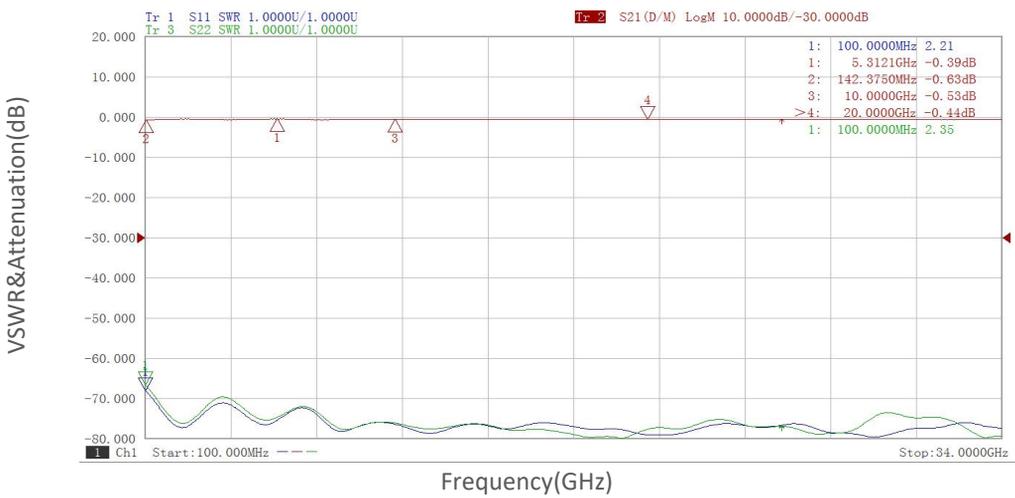
| 标准型号 Part Number | 描述 Description | 版本号Revision |
|------------------|--|-------------|
| TURDA0.1G34G-636 | 6-Bit Digital Digital Attenuator,0.1-34GHz,2.92mm Female | Rev.1.1 |

VSWR&Insertion Loss vs Frequency



0.5dB:

VSWR&Attenuation vs Frequency



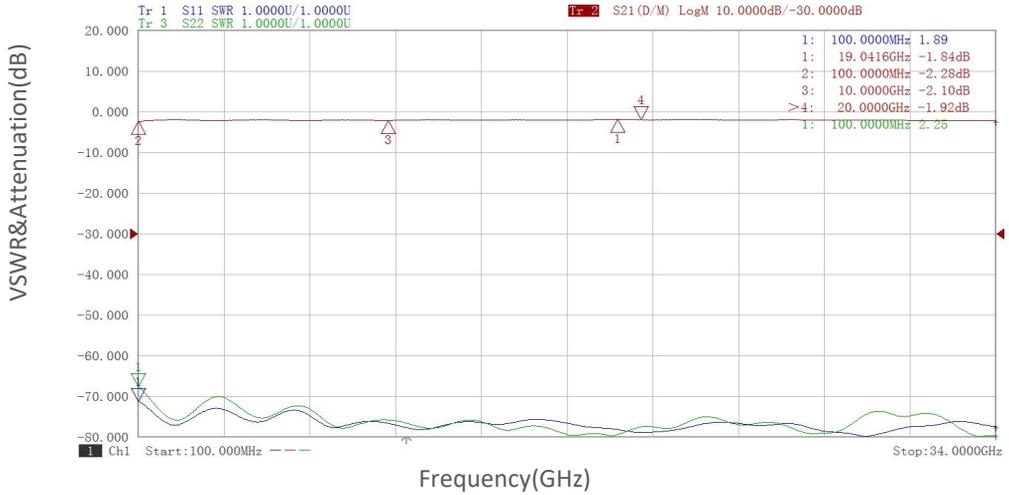
1dB:

VSWR&Attenuation vs Frequency

VSWR&Attenuation(dB)

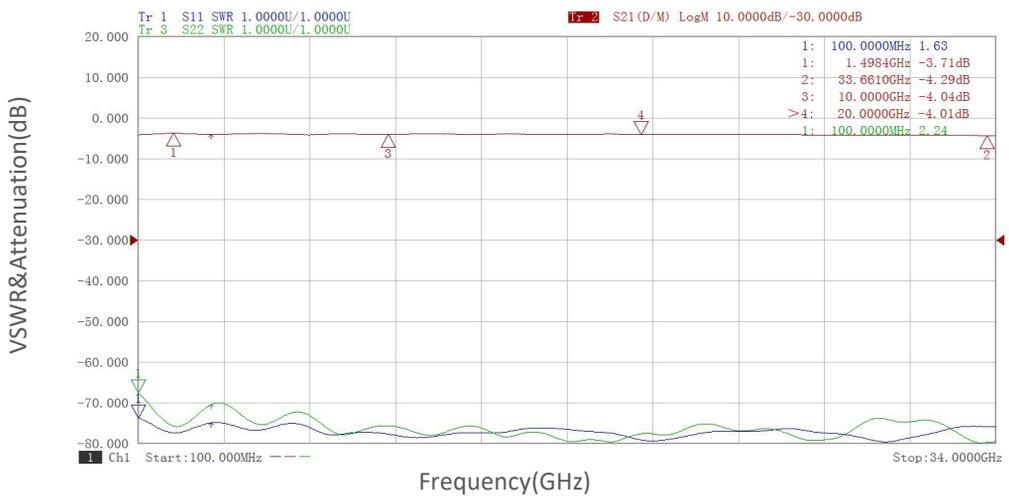
2dB:

VSWR&Attenuation vs Frequency



4dB:

VSWR&Attenuation vs Frequency

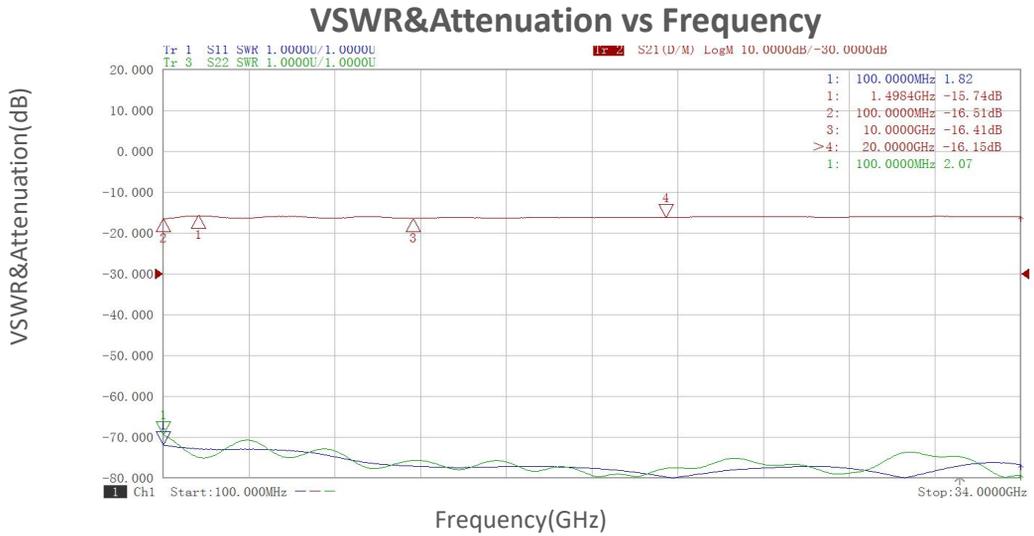


8dB:

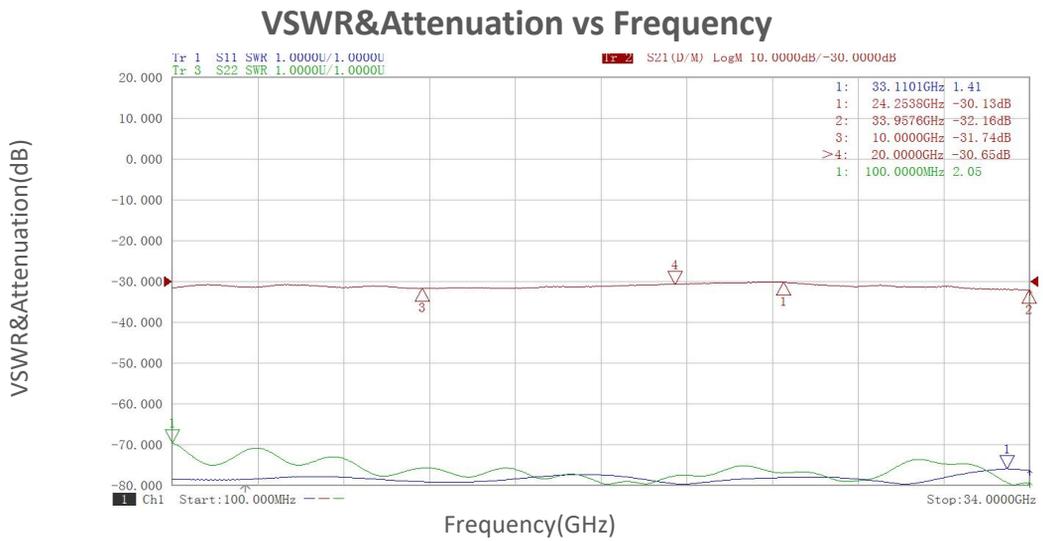
VSWR&Attenuation vs Frequency

VSWR&Attenuation(dB)

16dB:



31.5dB:



63dB:

