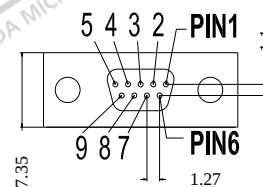
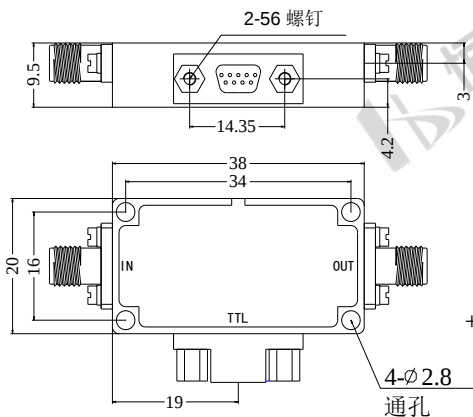


产品名称：吸收式数控衰减器

产品型号：HD-212DA6B63S



1 2 3 4 5 6 7 8 9  
+5V -5V GND C1 C2 C3 C4 C5 C6

MICRO-D9(Female)

## 1. 详细技术参数 (\*为主要参数)

| 参 数          | 最小值               | 典型值   | 最大值 | 最小值 | 典型值   | 最大值 | 最小值  | 典型值   | 最大值 | 单位         |
|--------------|-------------------|-------|-----|-----|-------|-----|------|-------|-----|------------|
| 频率范围*        | 2-4               |       |     | 4-8 |       |     | 8-12 |       |     | GHz        |
| 衰减范围*        |                   |       | 63  |     |       | 63  |      |       | 63  | dB         |
| 衰减精度*        |                   | ±2.0  |     |     | ±2.0  |     |      | ±2.0  |     | dB         |
| 控制位数         |                   |       | 6   |     |       | 6   |      |       | 6   | Bit        |
| 步进值          | 1                 |       |     | 1   |       |     | 1    |       |     | dB         |
| 插损           |                   | 4.5   | 5   |     | 4.5   | 5.8 |      | 5.5   | 7   | dB         |
| 插损随温度变化值     |                   | 0.005 |     |     | 0.005 |     |      | 0.005 |     | dB/<br>° C |
| 输入驻波比（全衰减状态） |                   | 1.7   | 2.2 |     | 1.6   | 2.2 |      | 1.5   | 1.8 | : 1        |
| 输入驻波比（全衰减状态） |                   | 1.7   | 2.2 |     | 1.6   | 2.2 |      | 1.5   | 1.8 | : 1        |
| 0.1db压缩点     |                   | 27    |     |     | 27    |     |      | 27    |     | dBm        |
| 输入IP3值       |                   | 45    |     |     | 45    |     |      | 45    |     | dBm        |
| 切换时间         | 150               |       |     |     |       |     |      |       |     | ns         |
| 重量           | 20.13             |       |     |     |       |     |      |       |     | g          |
| 阻抗           | 50                |       |     |     |       |     |      |       |     | Ω          |
| 电流(+5V/-5V)  | 150/80            |       |     |     |       |     |      |       |     | mA         |
| 输入输出连接头      | SMA-Female        |       |     |     |       |     |      |       |     |            |
| 控制连接         | MICRO-D9 (Female) |       |     |     |       |     |      |       |     |            |
| 表面处理         | 镀金                |       |     |     |       |     |      |       |     |            |
| 腔体材料         | 铝                 |       |     |     |       |     |      |       |     |            |
| 封装形式         | 标准封装（气密封装可选）      |       |     |     |       |     |      |       |     |            |

## 2. 逻辑关系

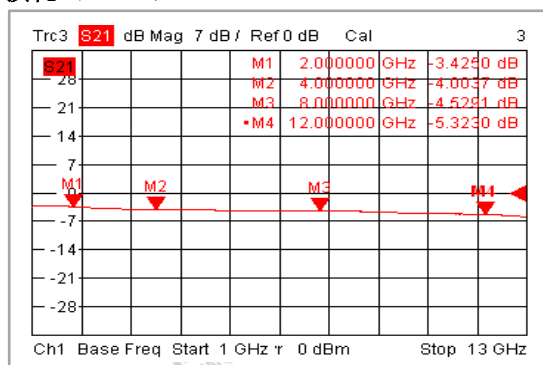
| TTL高低电平控制电压                                |    |    |    |    |    | 低电压 (0)=0-0.8V |
|--------------------------------------------|----|----|----|----|----|----------------|
|                                            |    |    |    |    |    | 高电压 (1)=2.8-5V |
| 控制输入TTL                                    |    |    |    |    |    | 衰减步进           |
| C6                                         | C5 | C4 | C3 | C2 | C1 | 损耗状态           |
| 1                                          | 1  | 1  | 1  | 1  | 1  |                |
| 1                                          | 1  | 1  | 1  | 1  | 0  | 1dB            |
| 1                                          | 1  | 1  | 1  | 0  | 1  | 2dB            |
| 1                                          | 1  | 1  | 0  | 1  | 1  | 4dB            |
| 1                                          | 1  | 0  | 1  | 1  | 1  | 8dB            |
| 1                                          | 0  | 1  | 1  | 1  | 1  | 16dB           |
| 0                                          | 1  | 1  | 1  | 1  | 1  | 32dB           |
| 0                                          | 0  | 0  | 0  | 0  | 0  | 63dB           |
| 控制方式可按需求定制 (TTL控制、USB控制、MICRO-D控制、LAN网络控制) |    |    |    |    |    |                |

## 3. 额定参数与环境

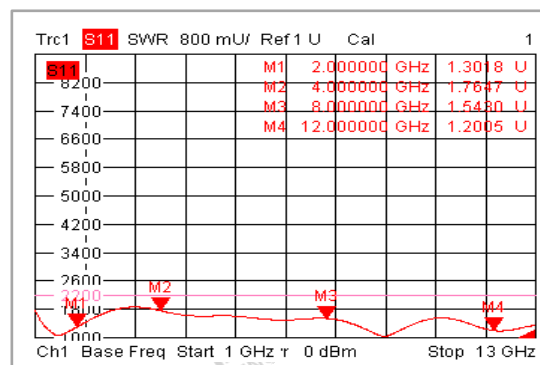
|        |                              |
|--------|------------------------------|
| 偏置电压   | +5V±10%/-5V±10%              |
| 射频输入功率 | +27dBm                       |
| 工作温度   | -45°C~+85°C                  |
| 存储温度   | -55°C~+125°C                 |
| 海拔高度   | 762米 (环氧树脂密封条件)              |
|        | 1524米. 最小1个标准大气压(气密封装条件)(可选) |

## 4. 产品测试图

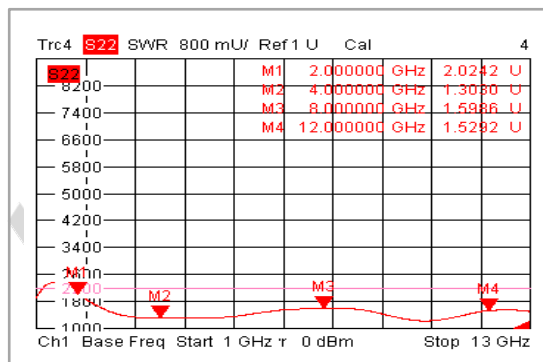
损耗 (+25°C)



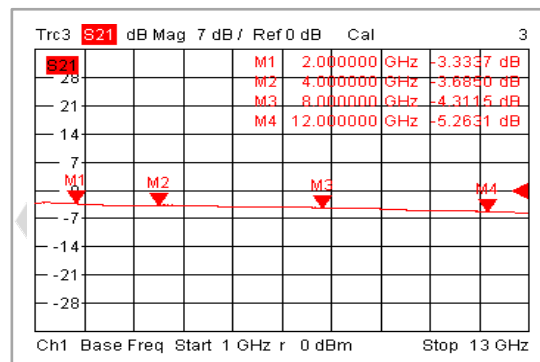
输入驻波比 (+25°C)



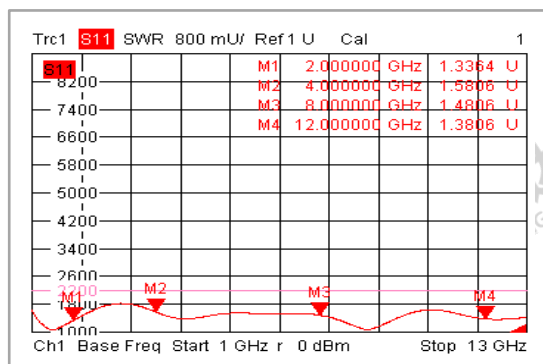
输出驻波比 (+25℃)



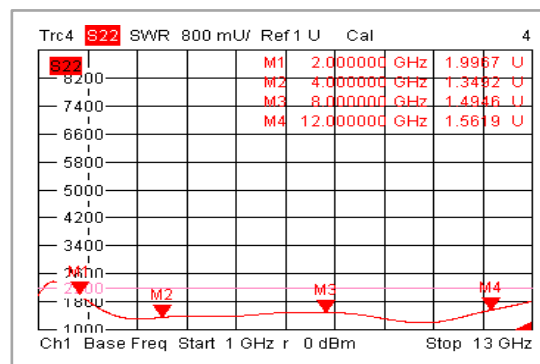
损耗 (-45℃)



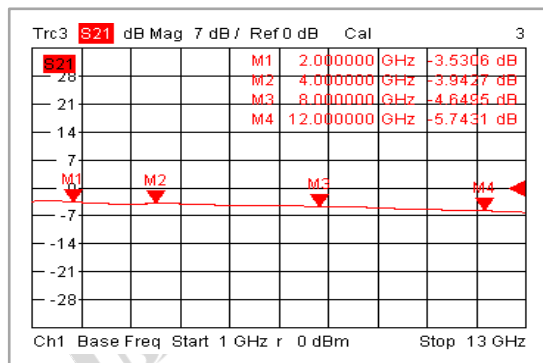
输入驻波比 (-45℃)



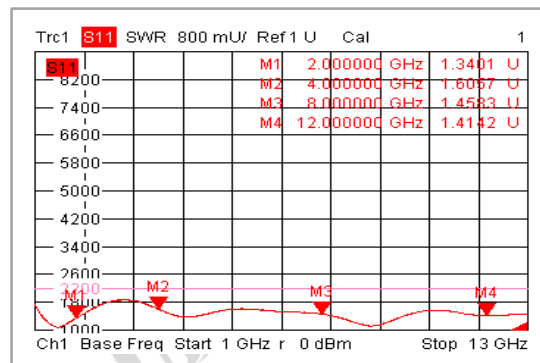
输出驻波比 (-45℃)



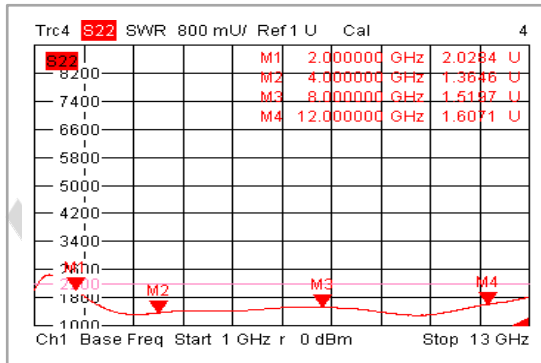
损耗 (+85℃)



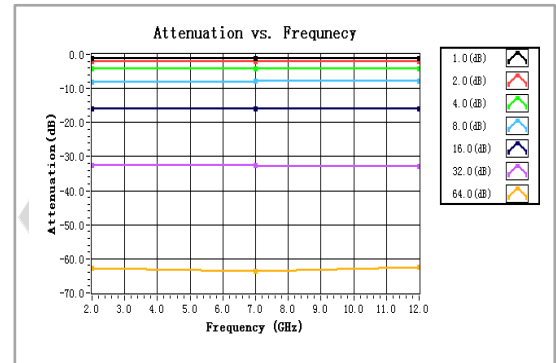
输入驻波比 (+85℃)



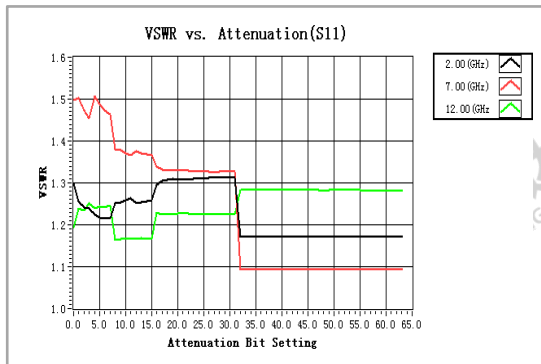
输出驻波比 (+85℃)



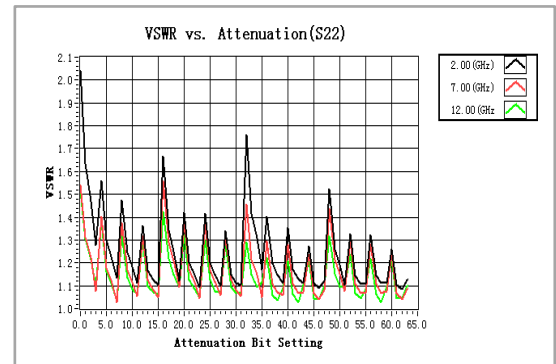
衰减值/频率



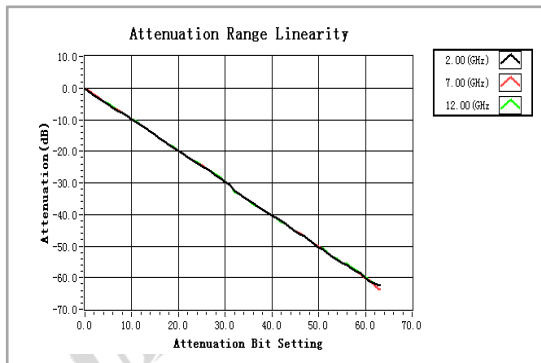
输入驻波比/衰减



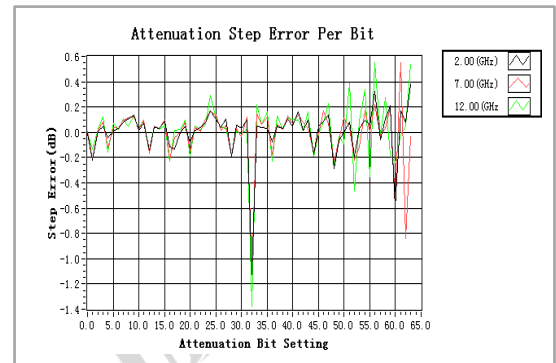
输出驻波比/衰减



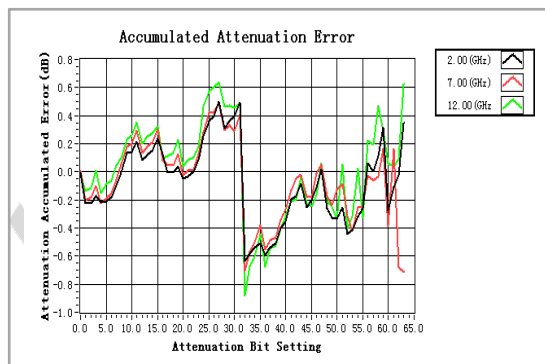
衰减范围线性指标



衰减步进偏差



衰减累计偏差



衰减步进相位差

