

## SPDT , Terminated , Coaxial Switches

R12-KF12040-DT , Coaxial Switches , SPDT , 2.92mm , Failsafe , 12VDC , DC to 40 GHz , DSUB-9 , Terminated  
 R12-KF24040-DT , Coaxial Switches , SPDT , 2.92mm , Failsafe , 24VDC , DC to 40 GHz , DSUB-9 , Terminated  
 R12-KF28040-DT , Coaxial Switches , SPDT , 2.92mm , Failsafe , 28VDC , DC to 40 GHz , DSUB-9 , Terminated

### 电气参数 Electrical Characteristics:

| 参数 Parameter                    | 条件 Condition      |
|---------------------------------|-------------------|
| 频率范围 Frequency range            | DC-40 GHz         |
| 阻抗 Impedance                    | 50 Ω              |
| 开关模式 Operation mode             | Failsafe          |
| 开关顺序 Switch sequence            | Break before make |
| 切换时间 Switching time             | 15 ms max         |
| 机械寿命 Mechanical life            | 1 million min     |
| 负载功率 Termination power CW       | 0.5W              |
| 额定电压 Rated voltage              | 12 24 28 VDC      |
| 工作电流 Operating current at 23 °C | 380 200 170 mA    |



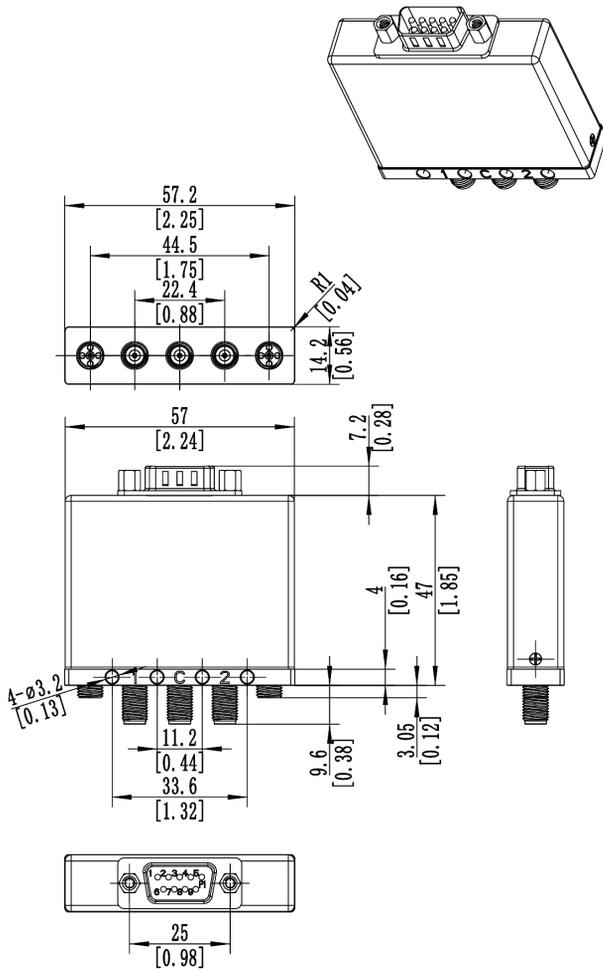
### 射频特性 RF Specifications:

| 频率范围 FREQUENCY RANGE(GHz)    | DC-6  | 6-12  | 12-18 | 18-26.5 | 26.5-32 | 32-40 |
|------------------------------|-------|-------|-------|---------|---------|-------|
| 插入损耗 INSERTION LOSS (MAX) dB | 0.2   | 0.25  | 0.4   | 0.7     | 0.8     | 1.0   |
| 隔离度 ISOLATION (MIN) dB       | 70    | 70    | 60    | 55      | 50      | 50    |
| 电压驻波比 V.S.W.R. (MAX)         | 1.2:1 | 1.3:1 | 1.4:1 | 1.7:1   | 1.9:1   | 2.0:1 |

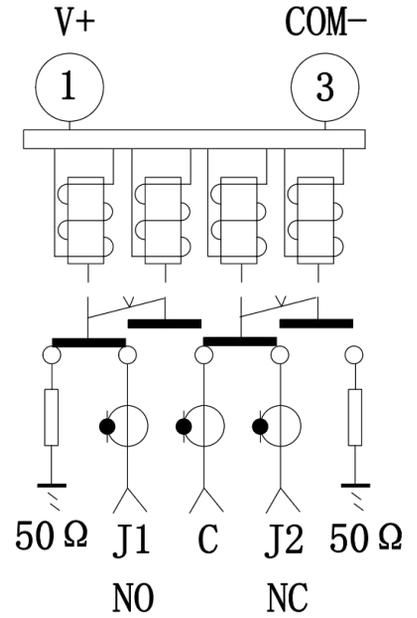
### 环境和物理特性 Environmental And Physical Characteristics:

| 参数Parameter                        | 条件 Condition  |
|------------------------------------|---|
| 工作温度范围 Operating temperature range | -25°C to +65°C(Standard )<br>-55°C to +85°C(Optional) |
| 振动 Sine vibration(Operating)       | 20-2000Hz , 10g                                       |
| 冲击 Shocks(Non Operating)           | 50g / 11ms, ½ sine                                    |
| 射频接口 RF Connector type             | 2.92mm Female   |

**外形尺寸 Outline Drawing:** Unit: mm



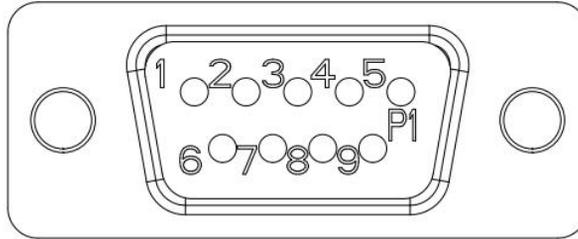
**原理图 Schematic:**



**功率曲线图 Average power:**

- This graph is based on the following conditions:
- Ambient temperature: + 25 °C
  - Sea level
  - V.S.W.R.: 1 and cold switching

## 针脚定义 Pin Definition:



| 9 PIN D-SUB |          | RF Connect Used |
|-------------|----------|-----------------|
| Pin NO.     | Function | SPDT            |
| 1           | V+       | NO:J1-COM       |
|             |          | NC:J2-COM       |
| 2           | UNUSED   |                 |
| 3           | COM-     |                 |
| 4-9         | UNUSED   |                 |

## 标准型号 Part Number:

标准型号 Part Number

额定电压  
Rated Voltage

可选项 Option

SPDT

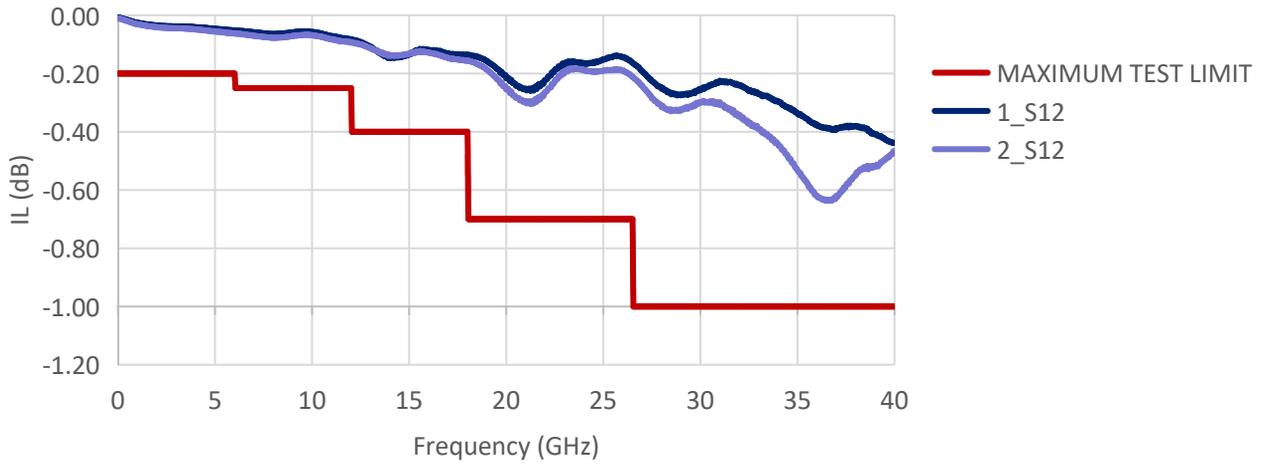
R12-KF12040-DT

12VDC

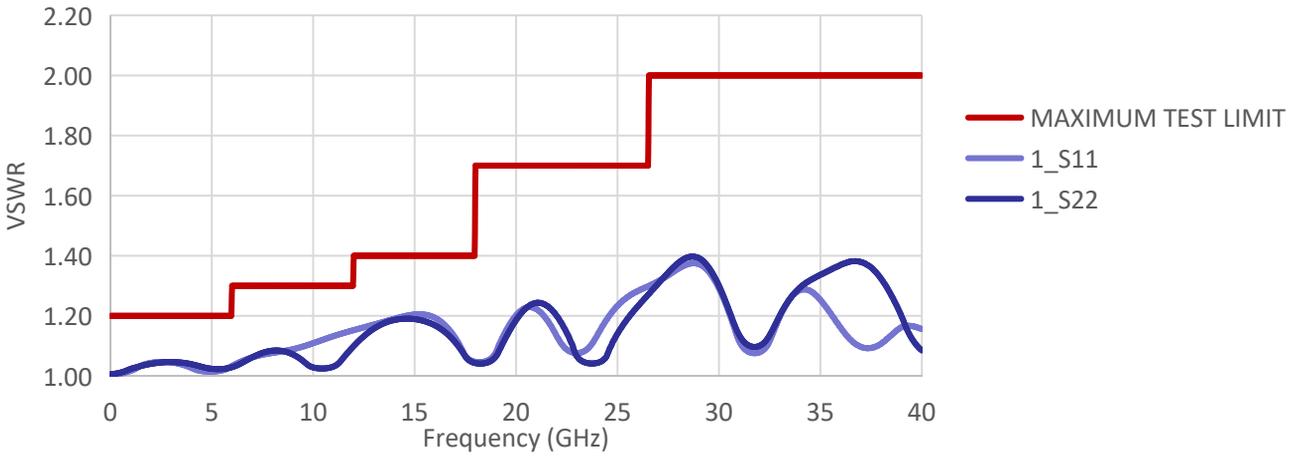
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典型曲线 Typical Performance Data:

INSERTION LOSS



VSWR



ISOLATION

