

## DPDT Coaxial Switches

R22-KL12040-D, Coaxial Switches, DPDT, 2.92mm, Latching, 12VDC, DC to 40 GHz, DSUB-9

R22-KL24040-D, Coaxial Switches, DPDT, 2.92mm, Latching, 24VDC, DC to 40 GHz, DSUB-9

R22-KL28040-D, Coaxial Switches, DPDT, 2.92mm, Latching, 28VDC, DC to 40 GHz, DSUB-9

### 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 $\Omega$       |     |        |
| 开关模式 Operation mode             | Latching          |     |        |
| 开关顺序 Switch sequence            | Break before make |     |        |
| 切换时间 Switching time             | 15 ms max         |     |        |
| 机械寿命 Mechanical life            | 2 million min     |     |        |
| 额定电压 Rated voltage              | 12                | 24  | 28 VDC |
| 工作电流 Operating current at 23 °C | 400               | 180 | 230 mA |



Available with USB & Ethernet Control

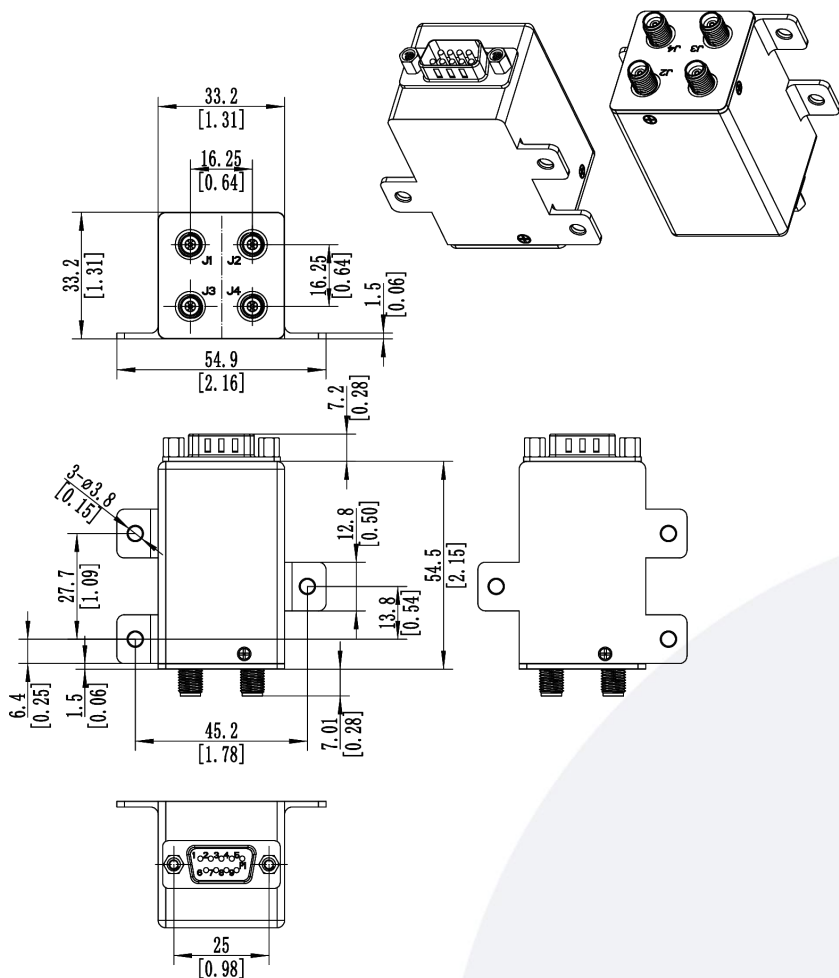
### 射频特性 RF Specifications:

| 频率范围 FREQUENCY RANGE(GHz)    | DC-6 | 6-12 | 12-18 | 18-26.5 | 26.5-40 |
|------------------------------|------|------|-------|---------|---------|
| 插入损耗 INSERTION LOSS (MAX) dB | 0.2  | 0.25 | 0.4   | 0.9     | 1.3     |
| 隔离度 ISOLATION (MIN) dB       | 70   | 70   | 60    | 55      | 50      |
| 电压驻波比 V.S.W.R. (MAX)         | 1.3  | 1.4  | 1.5   | 1.7     | 2.0     |

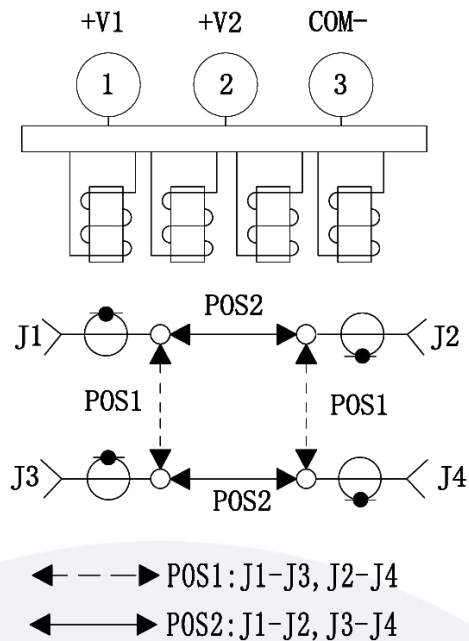
### 环境和物理特性 Envriionmental And Physical Characteristics:

| 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                                         |
| 控制接口 Control connector             | D-SUB 9 Pin Male                                      |
| 重量 Weight                          | 120g Max                                              |

## 外形尺寸 Outline Drawing: Unit: mm



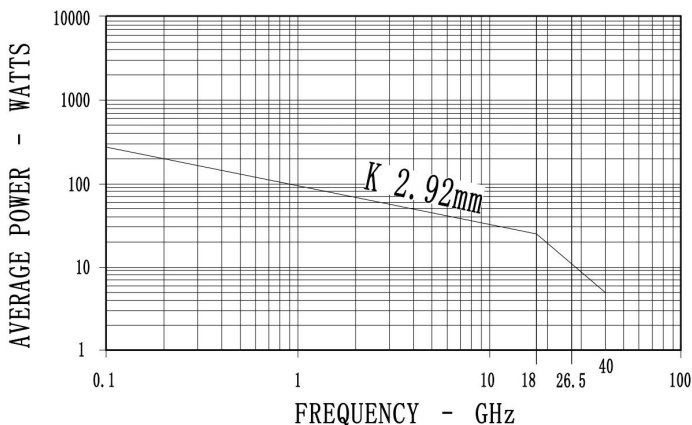
## 原理图 Schematic:



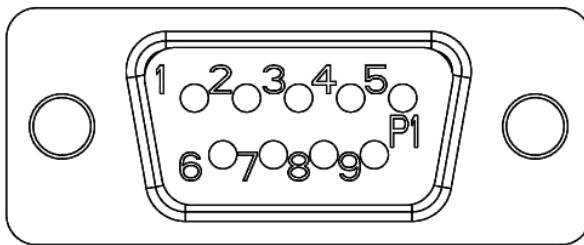
This graph is based on the following conditions:

- Ambient temperature: + 25 °C
- Sea level
- V.S.W.R.: 1 and cold switching

## 功率曲线图 Average power:



## 针脚定义 Pin Definition:



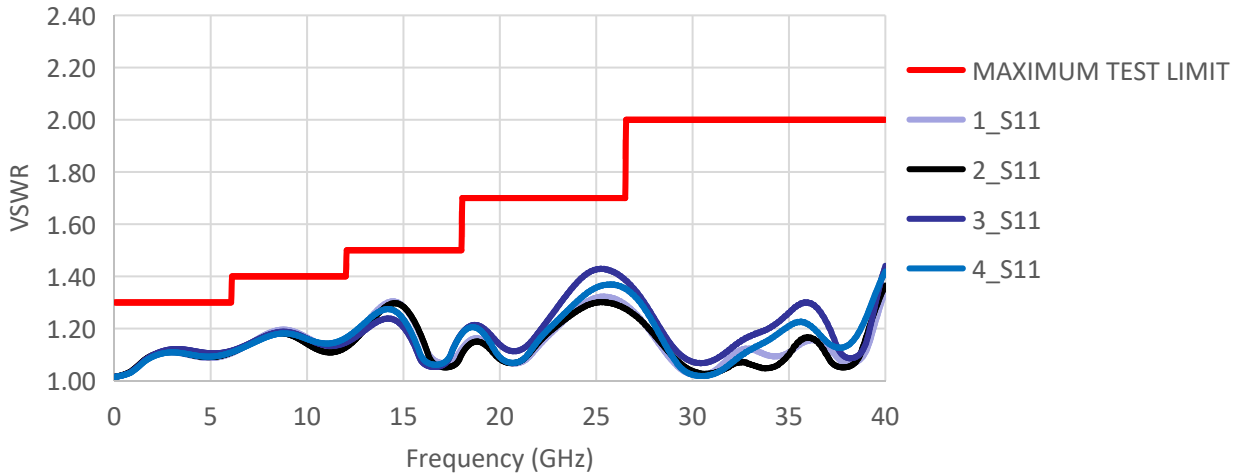
| D-SUB 9 Pin Male |          | RF Connect Used   |
|------------------|----------|-------------------|
| Pin NO.          | Function | DPDT              |
| 1                | +V1      | POS.1:J1-J3,J2-J4 |
| 2                | +V2      | POS.2:J1-J2,J3-J4 |
| 3                | COM-     |                   |
| 4-9              | UNUSED   |                   |

## 标准型号 Part Number:

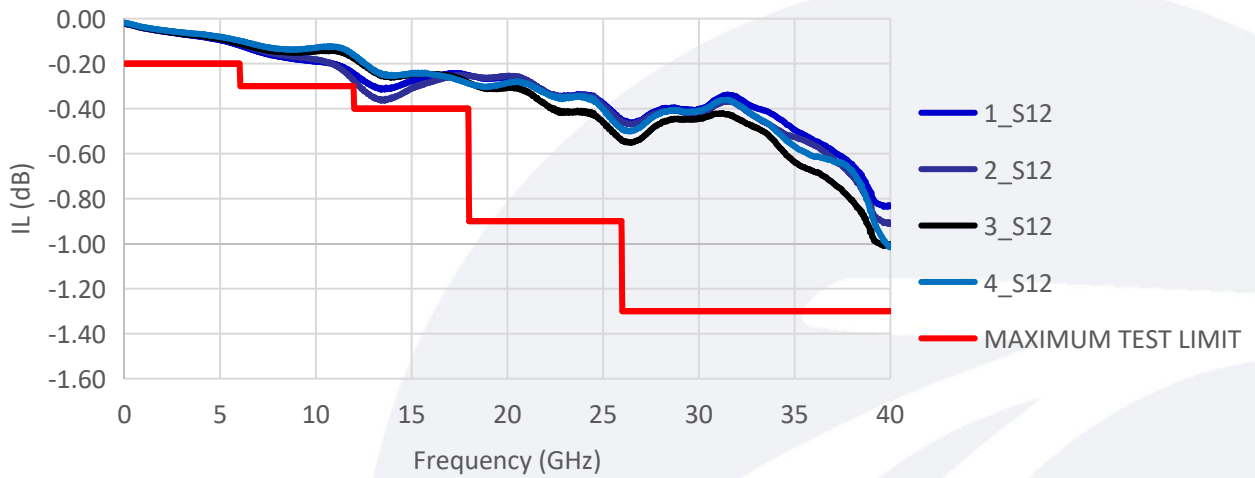
| 标准型号 Part Number | 驱动电压<br>Actuator voltage | 可选项 Option                                 |
|------------------|--------------------------|--------------------------------------------|
| DPDT             |                          |                                            |
| R22-KL12040-D    | 12VDC                    | -S<br>例如:R22-KL12040-DS<br>(备注, S型号满足IP65) |
| R22-KL24040-D    | 24VDC                    |                                            |
| R22-KL28040-D    | 28VDC                    |                                            |

## 典型曲线 Typical Performance Data:

VSWR



INSERTION LOSS



ISOLATION

