

## SP4T , Terminated , Coaxial Switches

R14-KN12T40-DT , Coaxial Switches , 1P4T , K , Normally Open , 12VDC , TTL , DC to 18 GHz , DSUB-15 , Terminated  
 R14-KN24T40-DT , Coaxial Switches , 1P4T , K , Normally Open , 24VDC , TTL , DC to 18 GHz , DSUB-15 , Terminated  
 R14-KN28T40-DT , Coaxial Switches , 1P4T , K , Normally Open , 28VDC , TTL , DC to 18 GHz , DSUB-15 , 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	Normally Open
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
TTL input	0-0.8 V(OFF), 2.4-5 V(ON)
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	300 167 160 mA



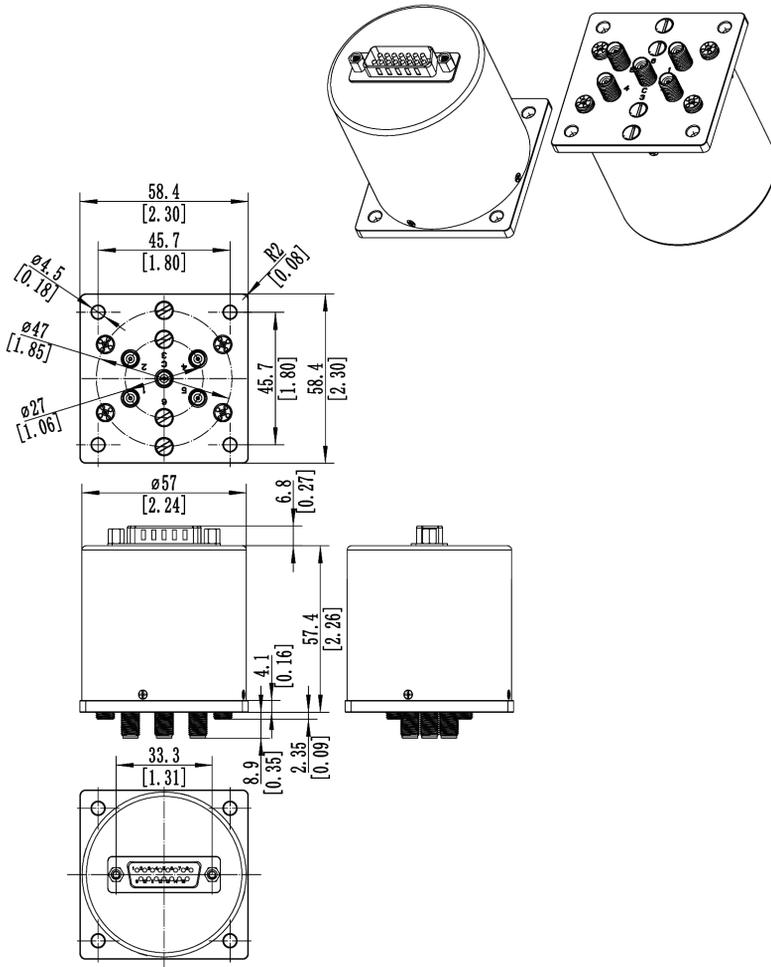
### 射频特性 RF Specifications:

频率范围 FREQUENCY RANGE(GHz)	DC-6	6-12	12-18	18-32	32-40
插入损耗 INSERTION LOSS (MAX) dB	0.3	0.4	0.5	0.8	1.3
隔离度 ISOLATION (MIN) dB	70	60	60	55	50
电压驻波比 V.S.W.R. (MAX)	1.3:1	1.4:1	1.5:1	1.9:1	2.1:1

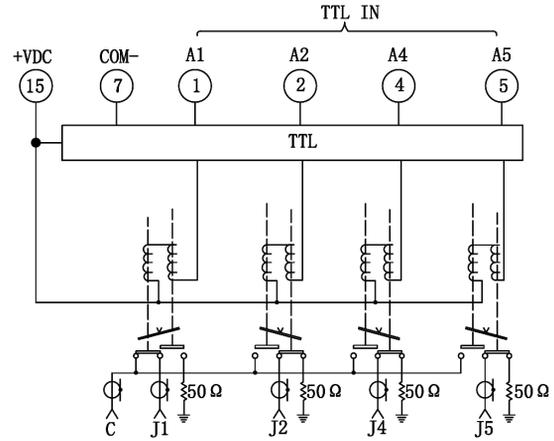
### 环境和物理特性 Environmental And Physical Characteristics:

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

## 外形尺寸 Outline Drawing: Unit: mm



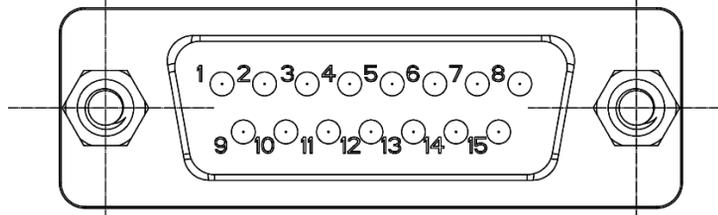
## 原理图 Schematic:



## 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:



15 PIN D-SUB		RF Connect Used
Pin NO.	Function	SP4T
1	A1(TTL IN)	1
2	A2(TTL IN)	2
3	UNUSED	
4	A4(TTL IN)	4
5	A5(TTL IN)	5
6	UNUSED	
7	COM-	
15	+VDC	
8-14	UNUSED	

## 标准型号 Part Number:

标准型号 Part Number

1P4T

R14-KN12T40-DT

额定电压  
Rated Voltage

12VDC

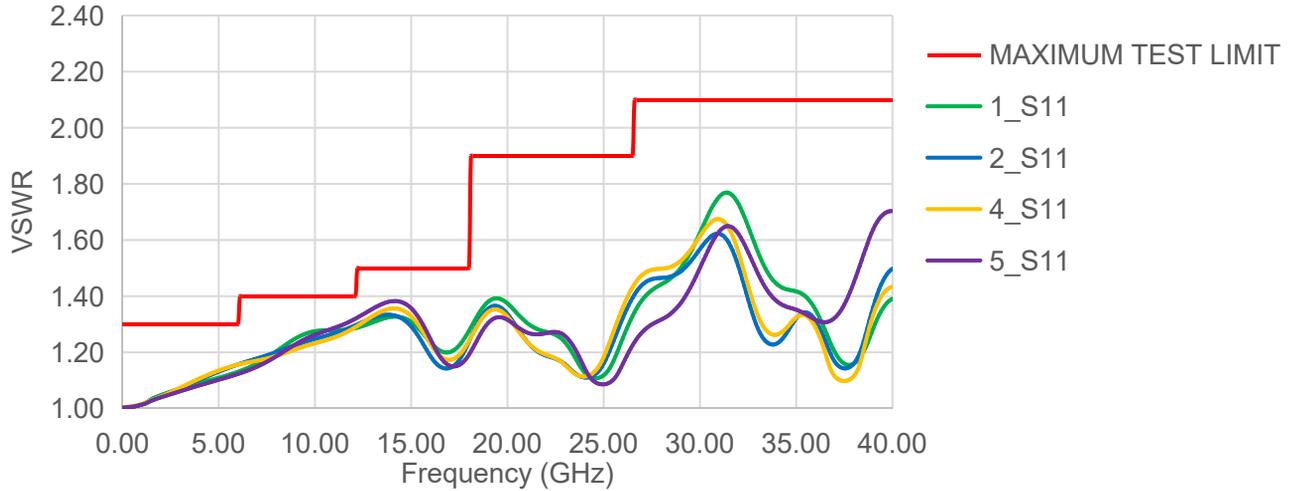
24VDC

可选项 Option

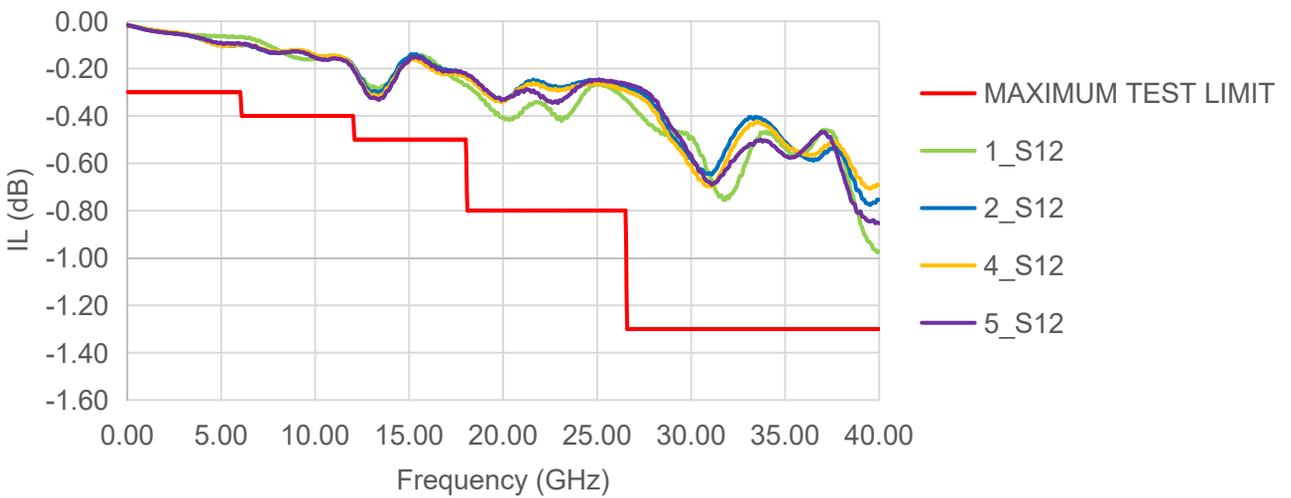
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## 典型曲线 Typical Performance Data:

### VSWR



### INSERTION LOSS



### ISOLATION

