泰莱微波
Talent Microwave

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Reflective,Ka-band Waveguide PIN Switch

26-40Hz/SPST/WR-28 Model: TMSPST-026040-28

The TMSPST-026040-28 is a Ka-band, SPST reflective PIN switch. The switch exhibits 0.9 dB typical insertion loss and 48 dB nominal isolation across the frequency range of 26 to 40 GHz. The control voltage of the standard model is TTL. The RF input and output ports are WR-28 waveguides with UG-599/UM anti-cocking flanges.

Features:

- Frequency range: 26-40GHz
- Low Insertion Loss: 0.9dB
- High Isolation
- Switch Type: Reflective

Applications:

- THz Systems
- Test Equipment

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	26		40	GHz
插损 Insertion Loss		0.9		dB
隔离 Isolation		48		dB
切换速度 Switch Speed		100		ns
输入驻波 Input VSWR		1.3		:1
输出驻波 Output VSWR		1.3		:1
功率压缩 P1dB Output P1dB		30		dBm
直流电压 DC Voltage		5		V DC
控制电压 Control Voltage		0/+5		V
直流电流 DC Supply Current		30		mA
开关类型 Switch type	Reflective			

绝对最大值 Absolute Maximum Ratings :

参数 Parameter	指标 Value	单位 Units
供电偏置电压 Supply Bias Voltage	+5（+5%）	V
控制电压 Control Voltage	+5（+5%）	V
射频输入功率 RF Input Power	34	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

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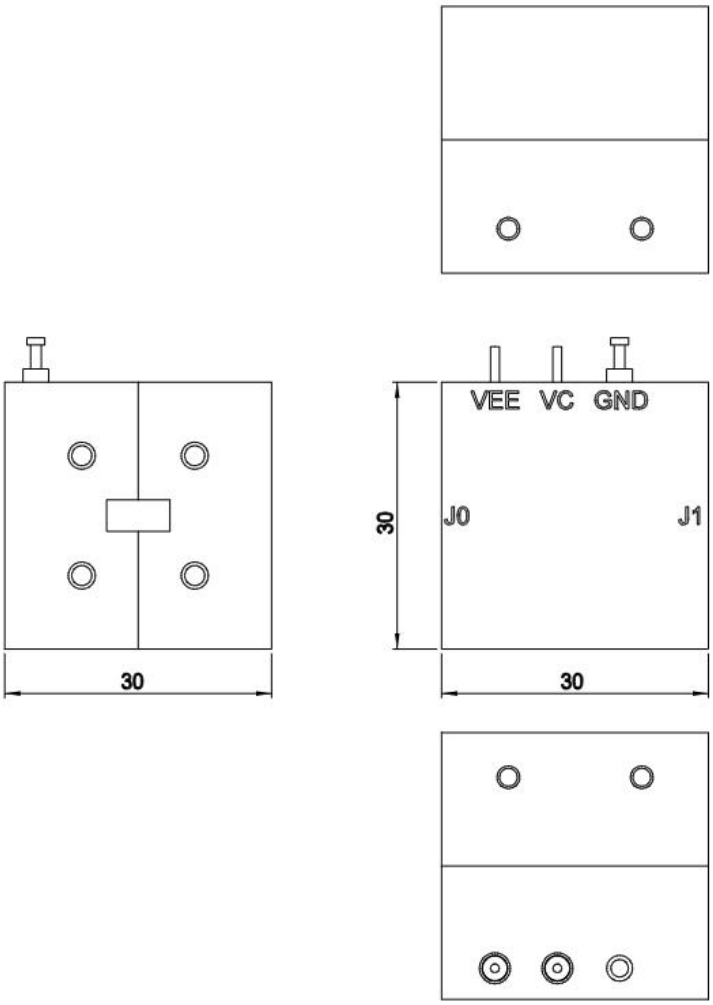
机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
输入接口 Input Connector	WR-28/UG-599/U	
输出接口 Output Connector	WR-28/UG-599/U	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	30*30*30	mm

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



真值表 Truth Table	
TTL Control Input Bit1	Signal Path State
+5 V	On
0 V	Off

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TMSPST-026040-28	Reflective,Ka-band Waveguide PIN Switch 26-40GHz, SPST, WR-28/UG-599/U	Rev.1.0