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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	26		40	GHz
Insertion Loss		0.9		dB
Isolation		48		dB
Switch Speed		100		ns
Input VSWR		1.3		:1
Output VSWR		1.3		:1
Output P1dB		30		dBm
DC Voltage		5		V DC
Control Voltage		0/+5		V
DC Supply Current		30		mA
Switch type	Reflective			

Absolute Maximum Ratings :

Parameter	Value	Units
Supply Bias Voltage	+5（+5%）	V
Control Voltage	+5（+5%）	V
RF Input Power	34	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

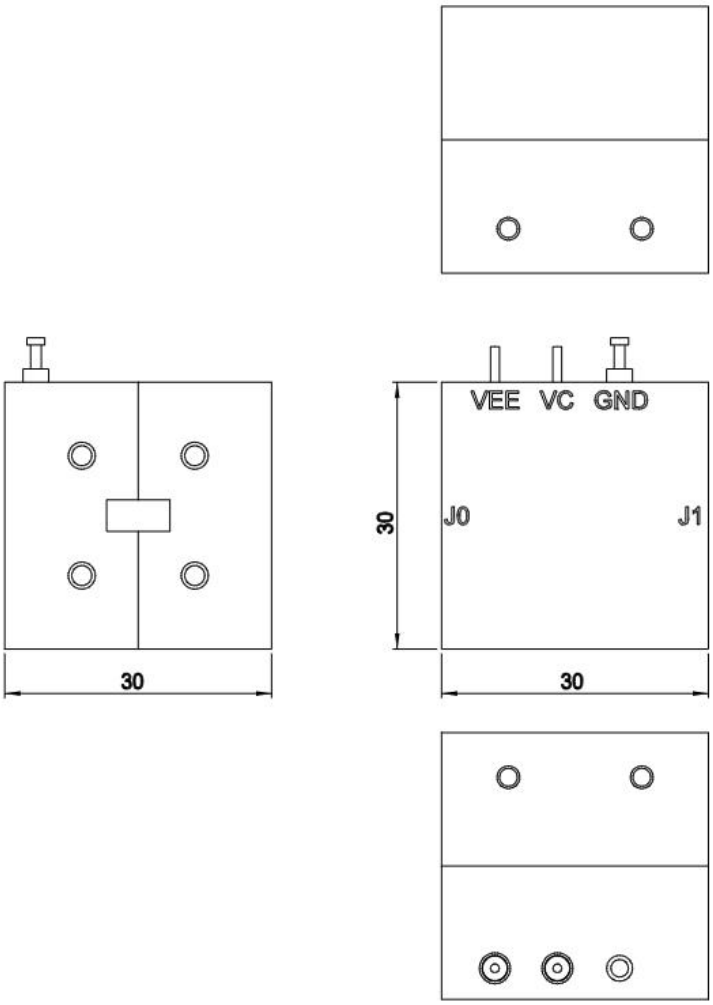
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Mechanical Specifications:

Description	Parameter	Units
Input Connector	WR-28/UG-599/U	
Output Connector	WR-28/UG-599/U	
Control Bias	Solder Pin	
Size	30*30*30	mm

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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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Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+85	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

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