泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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G-Band Reflective FET Switch

200-260 GHz/SPST/ WR-04

Model: TMSPST-200260-04

TheTMSPST-200260-04 is a G-Band switch with a Negative logic level that operates between 200 and 260 GHz. The SPST switch offers 30 dB port-to-port isolation with a typical switching speed of 100 nanoseconds. The input and output connectors of the switch are WR-04.

Features:

- Frequency range: 200-260GHz
- Low Insertion Loss: 4dB
- Power Handling : 20 dBm
- High Isolation
- Switch Type: Reflective

Applications:

- Communication Systems
- Automatic Test Equipment
- Switching Network

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range		200-260		GHz
插损 Insertion Loss		4		dB
隔离 Isolation		30		dB
切换速度 Switch Speed		100		ns
输入驻波 Input VSWR		1.5		:1
输出驻波 Output VSWR		1.3		:1
功率压缩 P1dB Output P1dB		20		dBm
控制电压 Control Voltage		-2V/0V		V
直流电流 DC Supply Current		-100		mA
开关类型 Switch type		Reflective		

绝对最大值 Absolute Maximum Ratings :

描述 Description	参数 Parameter	单位 Units
控制电压 Control Voltage	-2（+5%）	V
射频输入功率 RF Input Power	20	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

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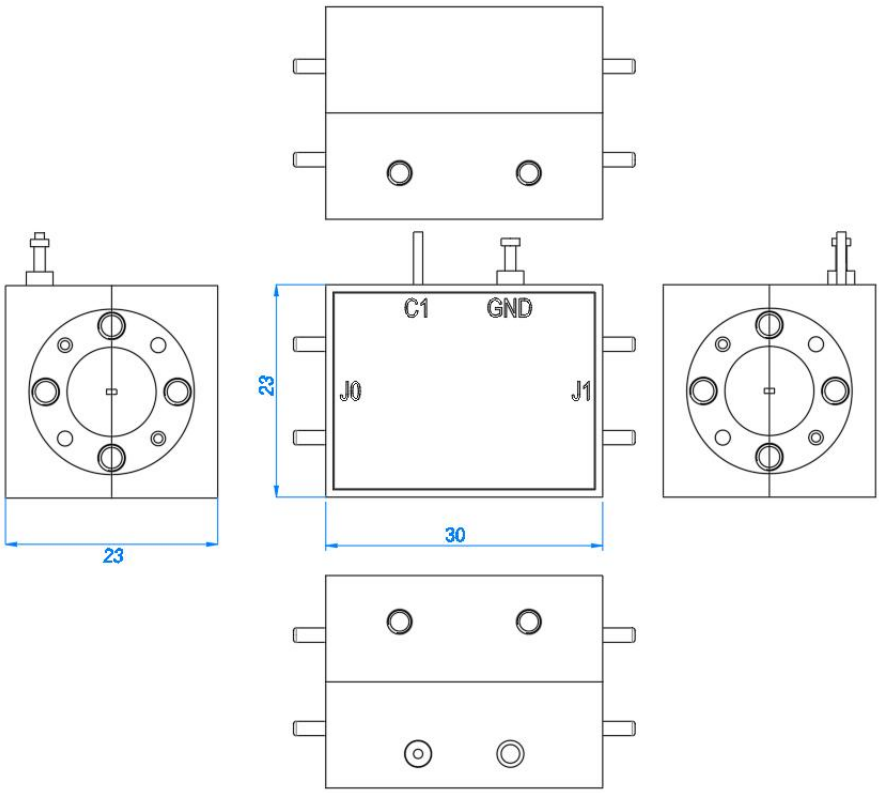
机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
输入/输出接口 Input /Output Connector	WR-04/UG-387/U	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	30*23*23	mm

外形图 Outline Drawing:

Unit:mm



真值表 Truth Table	
Control Input Bit1	Signal Path State
-2V	ON
0	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	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
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-200260-04	G-Band Reflective FET Switch 200-260 GHz,SPST,WR-04	Rev.1.1