

E-Band Reflective FET Switch

60-90 GHz/SP4T/ WR-12

Model: TMSP4T-060090-12

The TMSP4T-060090-12 is a E-Band switch with Negative logic level that operates between 60 and 90 GHz. The SP4T 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-12.

Features:

- Frequency range: 60-90GHz
- 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:

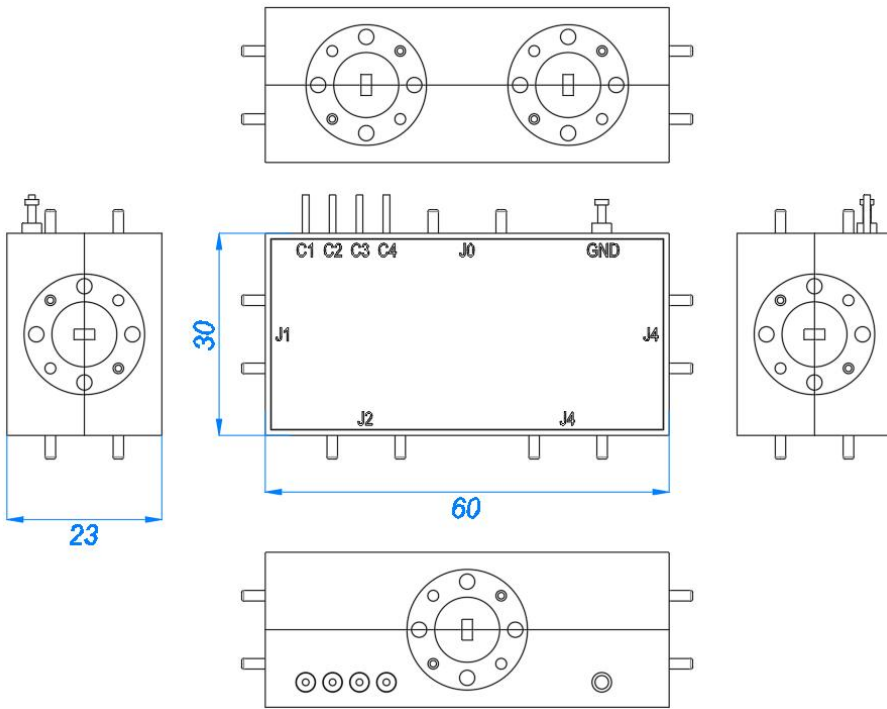
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range		60-90		GHz
插损 Insertion Loss		4		dB
隔离 Isolation		30		dB
切换速度 Switch Speed		100		ns
输入驻波 Input VSWR		1.7		:1
输出驻波 Output VSWR		1.3		:1
功率压缩 P1dB Output P1dB		20		dBm
控制电压 Control Voltage		-4/0		V
直流电流 DC Supply Current		-100		mA
开关类型 Switch type		Reflective		

绝对最大值 Absolute Maximum Ratings :

描述 Description	参数 Parameter	单位 Units
控制电压 Control Voltage	-4 (+5%)	V
射频输入功率 RF Input Power	20	dBm
ESD灵敏度 ESD sensitivity (HBM)	Class 0, passed 150V	

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-12/UG-387/U	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	60*30*23	mm



真值表 Truth Table

TTL Control Input				Signal Path State
Bit1	Bit2	Bit3	Bit4	
-4V	0	0	0	J0-J1
0	-4V	0	0	J0-J2
0	0	-4V	0	J0-J3
0	0	0	-4V	J0-J4



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

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
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
TMSP4T-060090-12	E-Band Reflective FET Switch 60-90 GHz,SP4T,WR-12	Rev.1.1