

High Power Switch

0.2-0.25GHz/SMA Female

Model: TLSPDT200M250M45R-50W

The TLSPDT200M250M45R-50W is a high power switch with a TTL driver that operates between 200 and 250 MHz. The switch offers 45 dB port-to-port isolation with a typical switching speed of 150 ns. The input and output connectors of the switch are SMA female.

Features:

- Frequency range: 200-250MHz
- Low Insertion Loss: 0.6dB
- Power Handling : 47dBm
- High Isolation

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	200-250			MHz
插损 Insertion Loss			0.6	dB
隔离 Isolation	40	45		dB
切换速度 Switch Speed			150	ns
输入驻波 Input VSWR			1.3	:1
输出驻波 Output VSWR			1.3	:1
耐功率 Power Handling			47	dBm
直流电压 DC Voltage			-5V@20mA -40V@20mA	V DC
控制电平 Control Logic TTL		0/+5		V DC
阻抗 Impedance	50			Ohms

绝对最大值 Absolute Maximum Ratings :

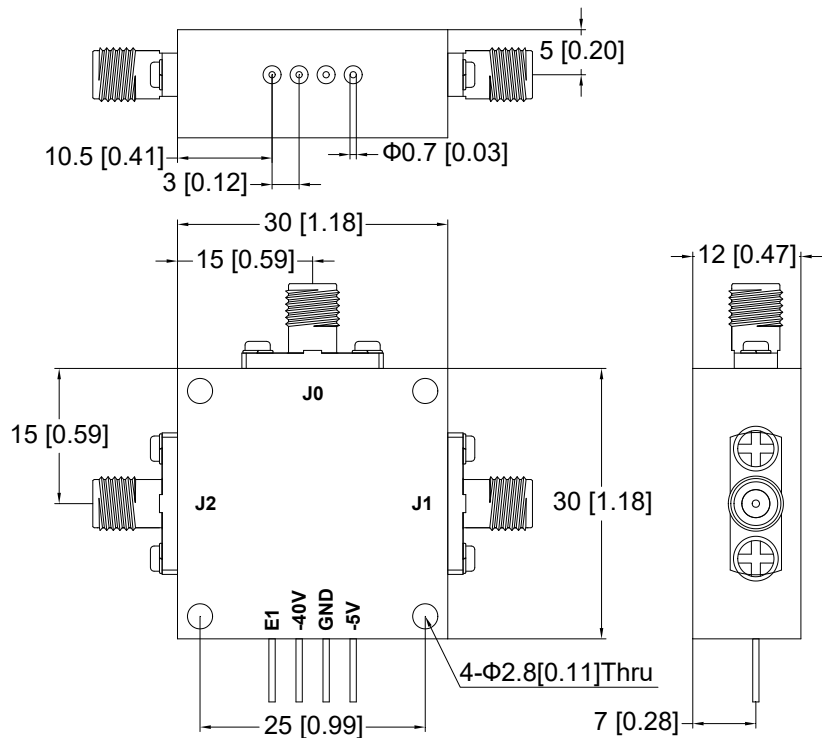
描述 Description	参数 Parameter	单位 Units
供电偏置电压 Supply Bias Voltage	-5.5;-45	V
射频输入功率 RF Input Power	+47	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

机械特性 Mechanical Specifications:

描述 Description	参数 Parameter	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流控制接口 Control Bias	Solder Pin	
尺寸 Size	30*30*12	mm

外形图 Outline Drawing:

Unit:mm



真值表 Truth Table

TTL Control Input	Signal Path State
E	
0	J0-J1
1	J0-J2

TTL Control Voltages &VDD

Stage	Bias Condition
Low (0)	0 Vdc
High (1)	+3.3 to +5.0Vdc



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	-40		+70	°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
TLSPDT200M250M45R-50W	High Power Switch,SPDT 200-250 MHz,SMA,Power handling: 47dBm	Rev.1.1