

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	200-250			MHz
Insertion Loss			0.6	dB
Isolation	40	45		dB
Switch Speed			150	ns
Input VSWR			1.3	:1
Output VSWR			1.3	:1
Power Handling			47	dBm
DC Voltage			-5V@20mA -40V@20mA	V DC
Control Logic TTL		0/+5		V DC
Impedance	50			Ohms

Absolute Maximum Ratings :

Description	Parameter	Units
Supply Bias Voltage	-5.5;-45	V
RF Input Power	+47	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

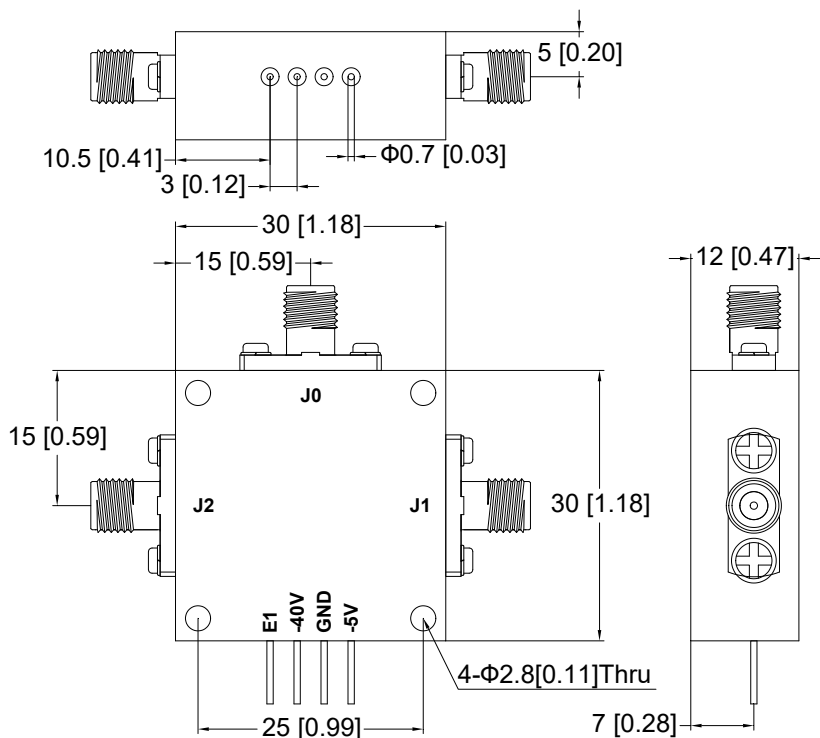
Mechanical Specifications:

Description	Parameter	Units
Input /Output Connector	SMA Female/SMA Female	
Control Bias	Solder Pin	
Size	30*30*12	mm

Outline Drawing:

Unit:mm

Regulatory Compliance:



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.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	°C
Non-operating Temperature	-55		+125	°C
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
TLSPDT200M250M45R-50W	High Power Switch,SPDT 200-250 MHz,SMA,Power handling: 47dBm	Rev.1.1