

Absorptive, Broadband PIN Switch 10MHz-8GHz/SP16T/SMA Female

Model: TLSP16T10M8GA

The TLSP16T10M8GA is an absorptive PIN diode based switch with a TTL driver that operates between 10MHz and 8GHz. The SP16T switch offers 55 dB port-to-port isolation with a typical switching speed of 100 ns. The input and output connectors of the switch are SMA female.

Features:

- Frequency range: 10MHz-8GHz
- Low Insertion Loss: 5.0 dB
- Power Handling : 25dBm
- High Isolation
- Switch Type: Absorptive

Applications:

- Communication Systems
- Automatic Test Equipment
- Switching Network

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	10MHz		8GHz	
Insertion Loss		5		dB
Isolation		55		dB
Switch Speed		100		ns
Input VSWR		1.8		:1
Output VSWR		1.8		:1
Power Handling			25	dBm
Control Logic TTL		+5		V DC
DC Supply Current		40		mA
Switch type	Absorptive			
Impedance	50			Ohms

Absolute Maximum Ratings :

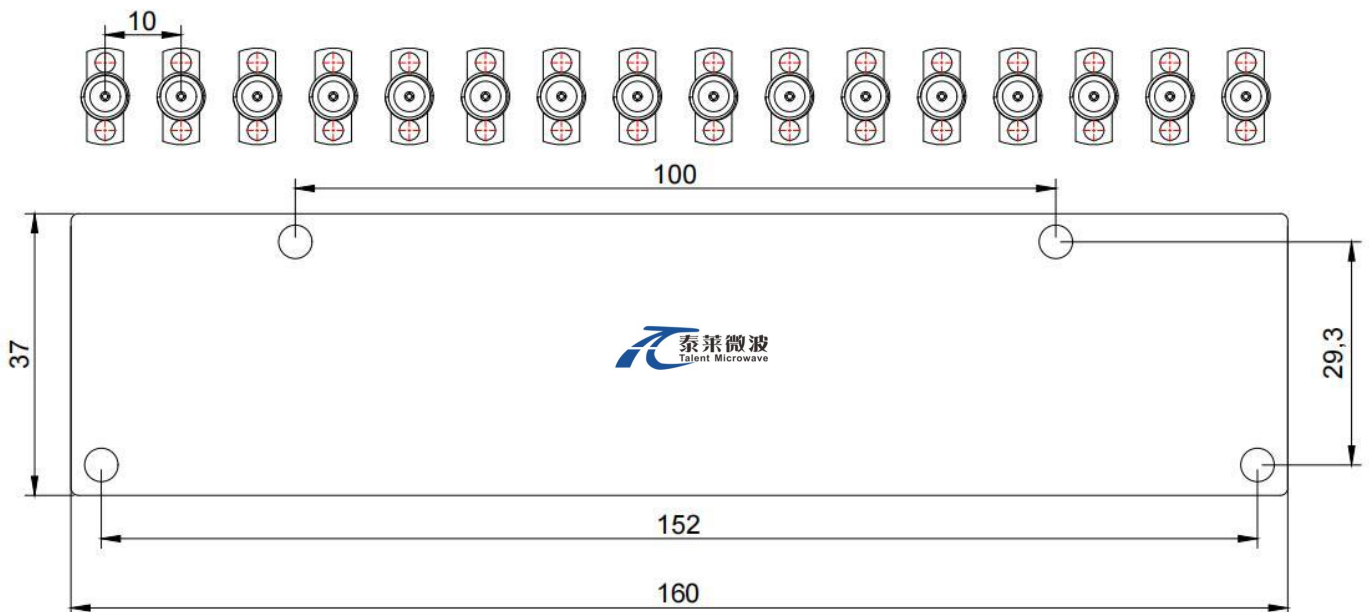
Description	Parameter	Units
Supply Bias Voltage	+6	V
RF Input Power	25	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

Mechanical Specifications:

Description	Parameter	Units
Input /Output Connector	SMA Female/SMA Female	
Control Bias Connector	J30J-9ZKP	
Size	TBD	mm

Outline Drawing:

Unit:mm



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

Pin Definitions :

真值表 Truth Table				
TTL Control Input				Signal Path State
C1	C2	C3	C4	
0	0	0	0	J0-J1
0	0	0	1	J0-J2
0	0	1	0	J0-J3
0	0	1	1	J0-J4
0	1	0	0	J0-J5
0	1	0	1	J0-J6
0	1	1	0	J0-J7
0	1	1	1	J0-J8
1	0	0	0	J0-J9
1	0	0	1	J0-J10
1	0	1	0	J0-J11
1	0	1	1	J0-J12
1	1	0	0	J0-J13
1	1	0	1	J0-J14
1	1	1	0	J0-J15
1	1	1	1	J0-J16

J30J-9ZKP	
针 Pin	单位 Units
1	C1
2	C2
3	C3
4	C4
5	GND
6	GND
7	GND
8	+5V
9	+5V

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°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
TLSP16T10M8GA	Absorptive,Broadband PIN Switch 10MHz-8GHz,SP16T,SMA	Rev.1.0