

**Model: TLSP4T0.1G18GA**
**Absorption, Broadband FET Switch  
 0.1-18 GHz, SP4T, SMA**
**Feature:**

- Ultra Wide Band: 0.1-18 GHz
- Low Insertion Loss: 3.5 dB
- Power Handling : 30 dBm
- High Isolation
- Switch Type: Absorption

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	0.1-18			GHz
Insertion Loss		3.5		dB
Isolation		65		dB
Switch Speed		100		ns
Input VSWR		2.0		:1
Output VSWR		2.0		:1
Power Handling			30	dBm
DC Voltage		+5		V DC
DC Supply Current		10		mA
Impedance	50			Ohms

**Mechanical Specifications:**

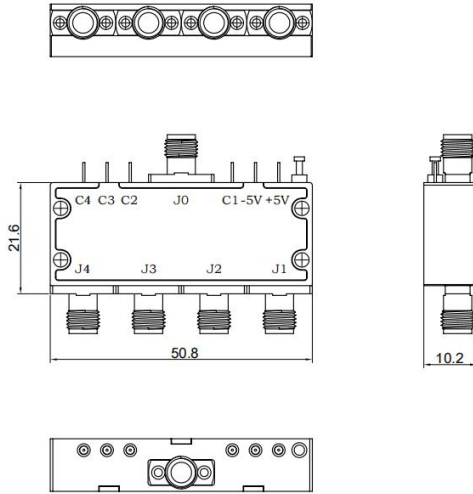
Parameter	Value	Units
Input /Output Connector	SMA Female	
Control Bias	Solder Pin	
Size	50.8*30*10.2	mm
Weight	-	g

**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	+/-5%
RF Input Power	30 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

### Outline Drawing:

Unit: mm(Inches)



Truth Table				
TTL Control Input				Signal Path State
C4	C3	C2	C1	
0	0	0	1	J0-J1
0	0	1	0	J0-J2
0	1	0	0	J0-J3
1	0	0	0	J0-J4
1: +3.3V/+5V 0:0V				

1. Dimensions are in mm [inches]
  2. Tolerances: Outline drawing  $\pm 0.2$  [0.008] Hole  $\pm 0.2$  [0.008]
- NOTE: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. +5V CAN BE NOT CONNECTED



### Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+70	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			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:

Part Number	Description	Revision
TLSP4T0.1G18GA	Absorption, Broadband PIN Switch 0.1-18 GHz, SP4T, SMA	Rev.1.1