

Model: TLSP6T0.1G40GRH
**Reflection, Broadband PIN Switch
 0.1-40 GHz, SP6T, 2.92 Female**
Feature:

- Ultra Wide Band: 0.1-40 GHz
- Low Insertion Loss: 6.0 dB
- Power Handling : 30 dBm
- High Isolation
- Switch Type: Reflection

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-40			GHz
Insertion Loss		6.0		dB
Isolation		60		dB
Switch Speed		40		ns
Input VSWR		1.8		:1
Output VSWR		1.8		:1
Power Handling		30		dBm
Output P1dB		26		dBm
DC Voltage		±5		V DC
Control Voltage		0/+3.3		V
DC Supply Current		140/-40		mA
Impedance	50			Ohms

Mechanical Specifications:

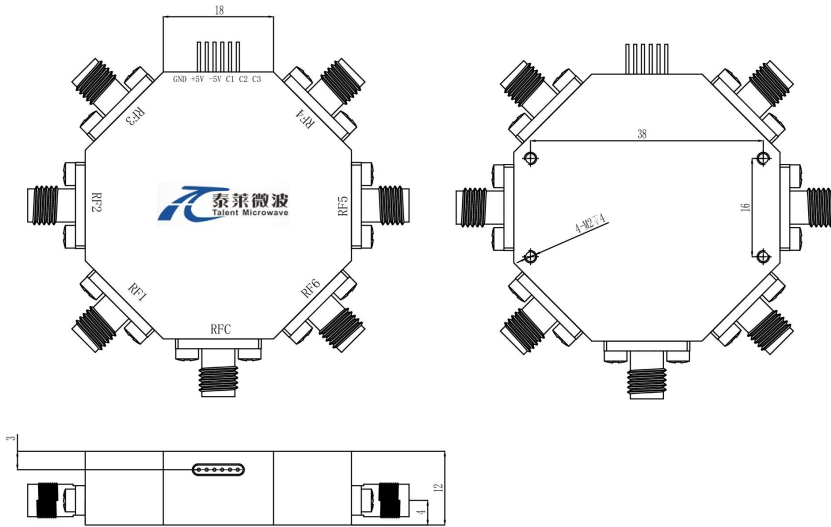
Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
Control Bias	Solder Pin	
Size	3V3*18mm*18mm*12mm	
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	/
RF Input Power	30 dBm
ESD sensitivity (HBM)	Class 0, passed 150V

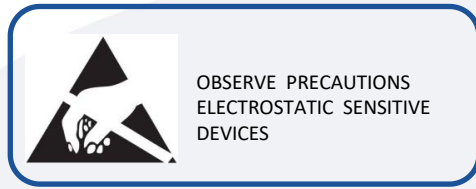
Outline Drawing:

Unit: mm



Truth Table			
TTL Control Input			Signal Path State
C3	C2	C1	
0	0	0	RF1 on
0	0	1	RF2 on
0	1	0	RF2 on
0	1	1	RF4 on
1	0	0	RF5 on
1	0	1	RF6 on
1	0	0	All off
1:3-3.6V 0:0-0.3V			

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
TLSP6T0.1G40GRH	Reflection,Broadband PIN Switch 0.1-40 GHz,SP6T,2.92mm Female	Rev.1.1