

**TMPS2-01001800-R 1-18 GHz SPDT Switch, Reflective**

**FEATURES**

- ❖ Ultra Wide Band Operation 1-18 GHz
- ❖ TTL Compatible Driver
- ❖ Fast Switching Speed
- ❖ Low Insertion Loss & High Isolation

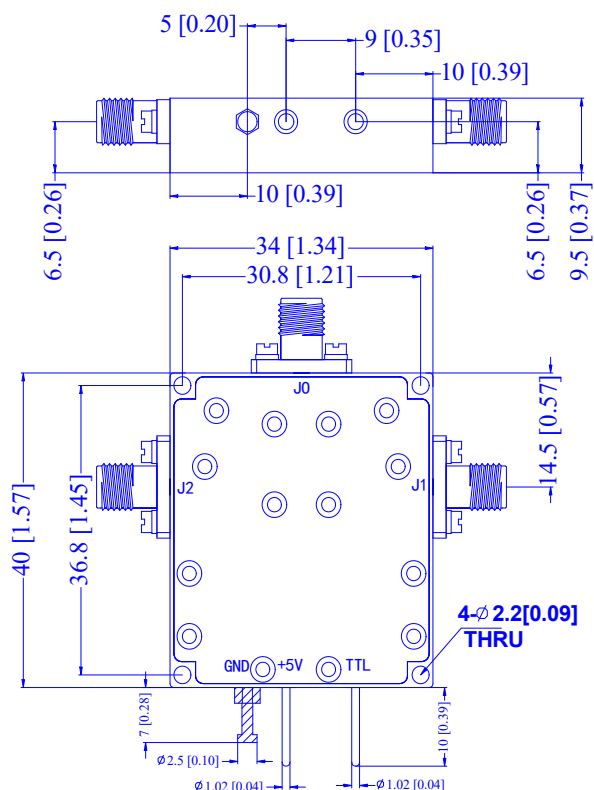
**APPLICATIONS**

- ❖ Wireless Infrastructure
- ❖ 5G Communication
- ❖ Test and Measurement Instrument

**SPECIFICATIONS**

Parameters	Min.	Typ.	Max.	Units
Frequency Range	1	-	18	GHz
Impedance	-	50	-	Ohms
Insertion Loss	-	1.8	2.6	dB
Isolation	26	35	-	dB
VSWR	-	1.6	2.0	: 1
RF Input Power(CW)	-	-	43	dBm
RF Input Power(pulsed, 10% Duty Cycle, 10μs pulse width)	-	-	54	dBm
DC Power Dissipation	-	0.7	-	W
0.3 dB Compression Point(P0.3dB)	-	44	-	dBm
IIP3	-	50	-	dBm
Switching Speed	-	-	200	nS
Voltage	-	+5	-	V
Bias Current	-	100	-	mA
Weight	-	-	40	g
Operating Temperature	-40	-	+85	°C
Storage Temperature	-50	-	+105	°C
Input/Output Connectors	SMA female			
Surface Finishing	Gold Plated			
Material	Copper/Aluminum			

**Outline Drawing [mm[inch]]**



**Truth Table**

TTL Control Voltage Threshold	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	Signal Path
0	J0-J1
1	J0-J2

Note: *Heatsink required for high power operation, sold separately;*  
*Air flow required for cooling during operation.*

Tolerances±0.1[0.004]