

RF Switch

RFLSW107-558-1P2T

Features:

- High Isolation
- Low Insertion loss
- Fast Switching time
- Absorptive Switch
- Low current consumption
- Wide bandwidth
- Economical
- Small & Rigid design
- 5V Operated

Description:

The RFLSW107-408-1P2T is a single pole double throw (SPDT) switch designed for applications requiring very low insertion loss and high power handling capability. The excellent linearity performance of the RFLSW106-408-1P2T makes it ideal for use.

Applications:

- Defence
- Test & Measurements
- Switch Matrices
- Antenna Switching Applications
- Bluetooth/WIFI/WIMAX/LORA/Zigbee
- Antenna switching applications

Standard Accessories:

- USB Charger (5V, 2A) (Figure. 1)

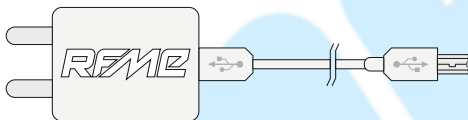
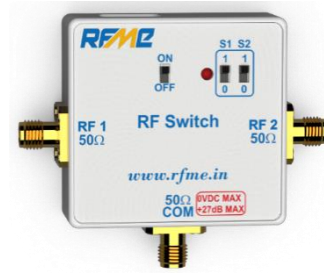


Figure 1

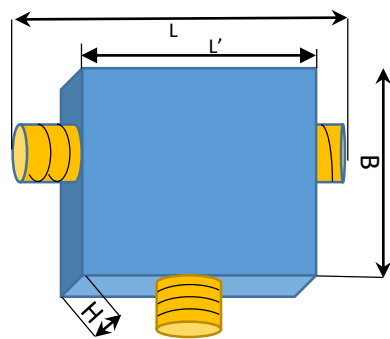
Truth Table:		
Output	State of Control Voltage:	
	Control 1	Control 2
RF 1	High	Low
RF 2	Low	High
All Off	Low	Low
Unsupported	High	High



Electrical Specifications:

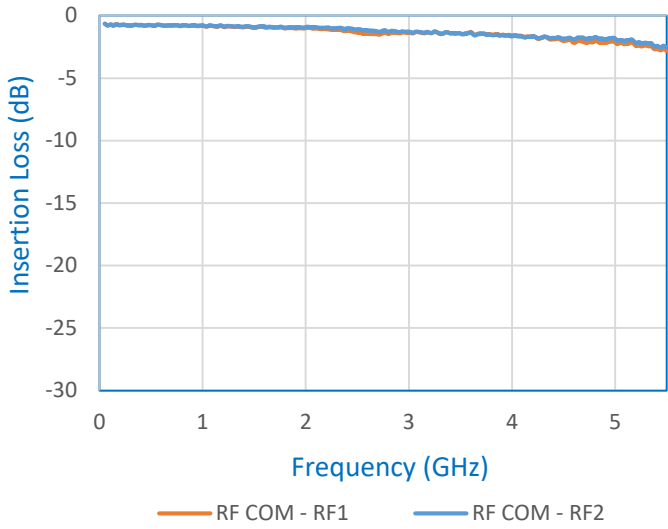
Frequency Range:	0.1 to 5.5GHz
Input Power:	+27dBm (Max.)
In/Out Impedance:	50 Ohm
Return Loss:	-10 dB Min
Insertion Loss:	
100 – 1000 (MHz)	1 dB (Typical)
1000 – 2000 (MHz)	1.1dB (Typical)
2000 – 3000 (MHz)	1.4dB (Typical)
3000 – 4000 (MHz)	1.5 dB (Typical)
4000 – 5000 (MHz)	2 dB (Typical)
5000 – 5500 (MHz)	3 dB (Typical)
Isolation (RF Com to RF1/RF2):	
100 – 1000 (MHz)	55dB (Typical)
1000 – 2000 (MHz)	50dB (Typical)
2000 – 3000 (MHz)	40dB (Typical)
3000 – 4000 (MHz)	45dB (Typical)
4000 – 5000 (MHz)	40dB (Typical)
5000 – 5500 (MHz)	35dB (Typical)
1.0dB Input Compression:	+35dBm
Operating temperature:	0 °C to 50 °C
Input Supply:	+5V To +5.5V DC
In/Out Connector:	SMA (F)
Power Consumption:	0.3Watt (Max.)

Mechanical Specifications:

Dimension (mm :	
	
	L = 39.4
	L' = 38.9
	B = 42.5
	H = 16.9
Shape:	Rectangle Cuboidal Shape
Weight:	55 gm

Normalized Performance Data:

FREQUENCY VS INSERTION LOSS



FREQUENCY VS ISOLATION

