

## Wideband RF switch

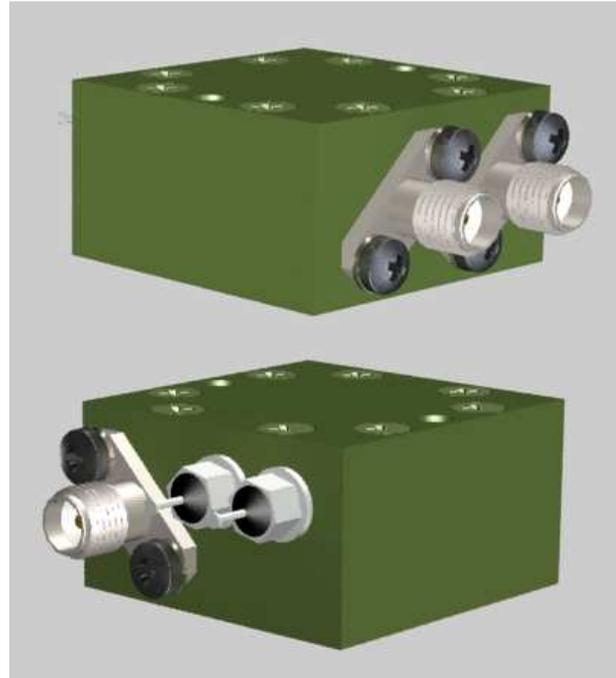
SPDT RF switch is designed for frequencies from 1MHz up to 6.0 GHz. Device input (RFC) and output (RF1, RF2) are matched into 50ohm. Open port is terminated by internal 50ohm load.

### Features:

- Low Insertion Loss
- High Linearity
- High Isolation
- Absorptive switch design
- 3V and 5V operation
- TTL/CMOS I/O
- Customized solution upon request
  - RF connector allocation
  - Case dimensions

### Applications:

- ATE environment
- Cellular and Wireless applications
- Filter bank selector
- Transceiver systems



### Absolute maximum ratings:

Parameter	Minimum	Maximum
Supply voltage	3.2V	5.5V
Control voltage	3.2V	5.5V
RF power input		+30@70-400MHz +34@0.4-6.0GHz
Operating temperature	-40°C	+85°C

### Technical specifications:

Parameter	Specification		
	1MHz-0.4GHz	0.4-4.0 GHz	4.0-6.0GHz
Frequency range	1MHz-0.4GHz	0.4-4.0 GHz	4.0-6.0GHz
Input impedance	50 ohm		
Insertion loss	<1.0 dB	<1.8 dB	<2.5dB
Return Loss	>18dB	>20dB	>18dB
Isolation (RFC to open port)	>50 dB	>40 dB	>35 dB
Input 1dB compression, typ.	+30 dBm	+33 dBm	+33 dBm
Input IP3, typ.	+60dBm	+60dBm	+60dBm
Switching time	<20µsec		
Supply voltage, Vdd nominal	+3.3V		
RF connectors	3 x SMA-female		
DC and CTRL connector	Solder pin		
Case dimensions (without connectors)	30x30x17mm		