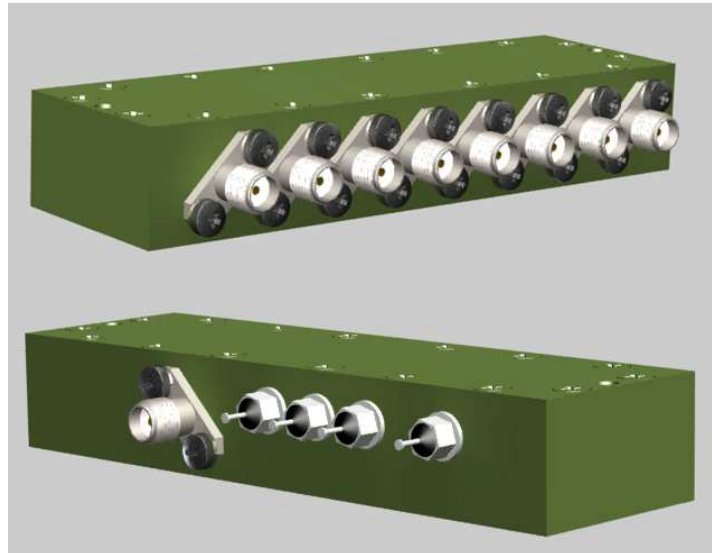


Wideband RF switch

SP8T RF switch is designed for frequencies from 1MHz up to 6.0 GHz. Device input (RFC) and output (RF1-RF8) are matched into 50ohm. Open ports are 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
- Multi RX/TX 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	<2.5 dB	<3.2 dB	<3.9dB
Return Loss	>17dB	>20dB	>15dB
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	9 x SMA-female		
DC and CTRL connector	Solder pin		
Case dimensions (without connectors)	100x30x17mm		