

TERMINATED SP8T 40 GHz COAXIAL SWITCH

High Performance Coaxial Switch



APPLICATIONS

- 5G Telecom
- High Frequency
Test & Measurement
- Satellite Communication

To meet the growing demands for various Test & Measurement applications, Radiall has introduced a new SP8T 40 GHz Coaxial Switch. Terminated and Non Terminated SP8T switches are fitted with SMA 2.9 mm connectors to complete a large range of existing 40 GHz switches.

PART NUMBER SELECTION

R52

SERIES PREFIX

MODEL

- 3: Without 50 Ω termination
- 4: With 50 Ω termination

RF CONNECTORS

- 8: SMA 2.9 up to 40 GHz

TYPE

- 0: Normally open
- 1: Normally open + I.C.
- 2: Latching
- 3: Latching + I.C.
- 4: Latching + S.C.O. ^[1]
- 5: Latching + S.C.O. + I.C. ^[1]
- 8: Latching + S.C.O. + A.R. ^[1]
- 9: Latching + S.C.O. + I.C. + A.R. ^[1]

ACTUATOR TERMINALS

- 0: Solder pins
- 5: D-Sub connector

OPTIONS ^[9]

- 0: Without option
- 1: Positive common ^[3]
- 2: Compatible TTL driver ^[1 & 4]
- 3: With suppression diodes
- 4: With suppression diodes and positive common ^[8]
- 8: BCD TTL driver compatible ^[1, 2, 4 & 5]

NUMBER OF POSITIONS

- 8: 8 positions

ACTUATOR VOLTAGE

- 2: 12 Vdc
- 3: 28 Vdc

Notes

I.C. : Indicator contact / S.C.O. : Self Cut-Off / A.R. : Auto Reset

1. These models are already equipped with suppression diodes.

2. Latching BCD driver enables also a global reset through driver code 0000 (See BCD logic coding in TDS).

3. 8 positions, this option is only available for type 0, 1, 2, 3 and for type 8 and 9 combined with 28 Vdc.

4. Polarity is not relevant to application for switches with TTL driver 8 positions, this option is only available with type 0, 1, 8 and 9.



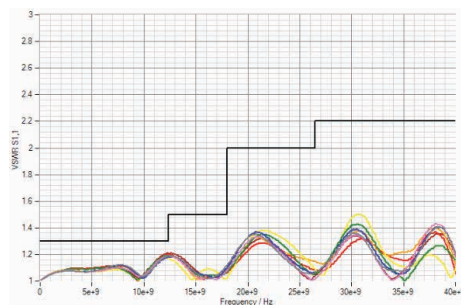
All of SP8T's RF paths have the same electrical length and insertion loss, enabling excellent RF performance up to 40 GHz.

Operating Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40
V.S.W.R Max	1.3	1.3	1.5	2	2.2
Insertion Loss Max (dB)	0.3	0.4	0.6	0.7	1.5
Isolation Min (dB)	80	70	70	70	70
Average Power (W) <i>Nominal Voltage at 25 °C</i>	40	30	25	15	5

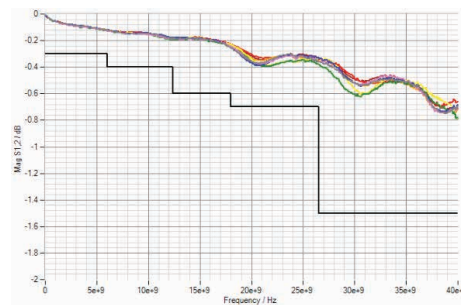
FEATURES & BENEFITS

- Frequency: DC - 40 GHz
- Excellent RF performances and repeatability
- Life span: Minimum guarantee 2 million cycles
- Various options available
- Same electrical length and insertion loss for all RF paths
- A square flange design for easier box integration

VSWR



INSERTION LOSS



ISOLATION

