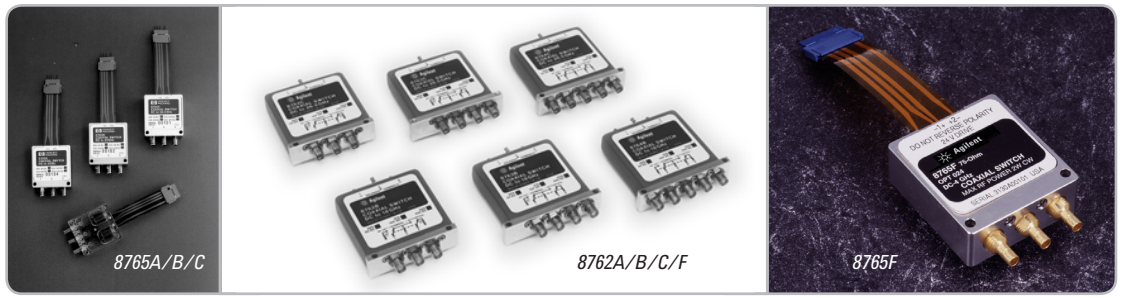
Quick Fact Sheet

Agilent Low Cost Electromechanical SPDT Switches

Agilent's economical SPDT switches offer 50 Ω and 75 Ω high-performance capability at a fraction of the cost.

Agilent SPDT switches provide the performance you need from DC to 40 GHz.



Features

- Current interrupts
- Position indication capability

Superior performance with guaranteed specifications to 40 GHz

Superior RF performance

Insertion loss:
- < 0.25 dB to 2 GHz
- < 0.5 dB to 18 GHz
- < 1.25 dB to 26.5 GHz

Isolation:
- > 90 dB to 18 GHz
- > 50 dB to 26.5 GHz

Broad frequency range:
- DC to 4, 18, 26.5, and 40 GHz

Quick Fact Sheet

Agilent Low Cost Electromechanical SPDT Switches

Product specifications

Model	Frequency (GHz)	Termination	Average power (W)	Peak power (W)	Isolation (dB)	Insertion loss (dB)	SWR	Speed (ms)	Life cycle (million)	Driving voltage (Vdc)	RF connectors
Low cost electromechanical SPDT											
8762A	DC to 4	Terminated	1	100	90	0.25	1.2	30	1	5, 15, 24	SMA (f)
8762B	DC to 18	Terminated	1	100	90	0.5	1.3	30	1	5, 15, 24	SMA (f)
8762C	DC to 26.5	Terminated	1	100	50	1.25	1.8	30	1	5, 15, 24	3.5 mm
8762F [1]	DC to 4	Terminated	1	100	90	0.4	1.3	30	1	24	mini SMB (m)
8765A	DC to 4	Unterminated	2	100	100	0.3	1.7	15	5	5, 10, 15, 24	SMA (f)
8765B	DC to 20	Unterminated	2	100	54	0.7	1.7	15	5	5, 15, 24	SMA (f)
8765C	DC to 26.5	Unterminated	2	100	50	0.2	1.7	15	5	5, 10, 15, 24	3.5 mm
8765D	DC to 40	Unterminated	2	100	50	1.12	1.5	15	5	5, 10, 15, 24	2.4 mm
8765F [1]	DC to 4	Unterminated	2	100	90	0.4	1.2	15	5	5, 10, 15, 24	mini SMB (m)
High power SPDT											
8761A	DC to 18	Unterminated	1	100	45	0.8	1.15	50	1	12	SMA (f) [2]
8761B	DC to 18	Unterminated	1	100	45	0.8	1.15	50	1	26	SMA (f) [2]

1. *75 Ω impedance*
2. *See ordering information*

Ordering information

Model	Option type	Option	Option description
8761A/ 8761B	Coil voltage	A	12 to 15 Vdc
		B	24 to 30 Vdc
	Connector code option Port 1 option 10x Port 2 option 20x Port C option 30x	0	N (f)
		1	N (m)
		2	APC-7 threaded sleeve
		3	APC-t coupling unit
		4	7 mm for UT-250 coax
		5	SMA (f)
		6	SMA (m)
		7	50 Ω termination (for port 1 and port 2 only)
8762A/ 8762B/ 8762C	Coil voltage	024	24 Vdvc
		T24	TTL/5V CMOS compatible logic with 24 Vdc supply
		011	5 Vdc
		015	15 Vdc
		T15	TTL/5V CMOS compatible logic with 15 Vdc supply
8762F	Coil voltage	024	24 Vdvc
		011	5 Vdc
		015	15 Vdc
8765A/ 8765B/ 8765C/ 8765D/ 8765F	Coil voltage	005	5 Vdc with 3-inch ribbon cable
		305	5 Vdc with solder terminals
		010	10 Vdc with 3-inch ribbon cable
		310	10 Vdc with solder terminals
		015	15 Vdc with 3-inch ribbon cable
		315	15 Vdc with solder terminals
		024	24 Vdc with 3-inch ribbon cable
		324	24 Vdc with solder terminals
	RF connector	241	2.4 mm (f) (for 8765D only)
		292	2.92 mm (f)
	DC connector	108	8-inch ribbon cable extension
		116	16-inch ribbon cable extension

For more details on the Agilent EM switches and ordering information see the "*Agilent RF and Microwave Switch Selection Guide*", literature number 5989-6031EN

For more information on Agilent switches, please visit **www.agilent.com/find/switches**

Download or order from **www.agilent.com/find/mta**

To find a distributor in your area, go to **www.agilent.com/find/distributors**

Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations
For more information go to **www.agilent.com/find/removealldoubt**

Technical data, availability, and pricing subject to change without notice.
© Agilent Technologies, Inc. 2012, Printed in USA, June 7, 2012
5990-4443EN

Agilent Technologies