Product Fact Sheet

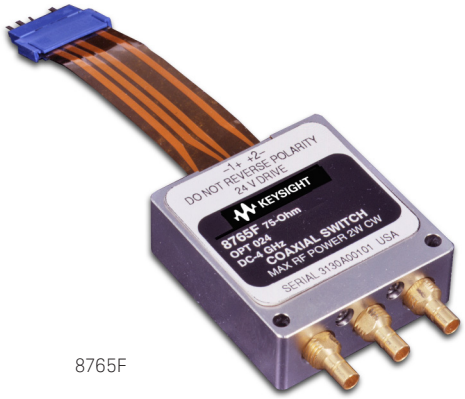
Keysight Low Cost Electromechanical SPDT Switches

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

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

8765A/B/C

8762A/B/C/F



8765F

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

KEYSIGHT TECHNOLOGIES

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

www.keysight.com/find/E5072A

Three-Year Warranty
www.keysight.com/find/ThreeYearWarranty
Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans
www.keysight.com/find/AssurancePlans
Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

For more details on the Keysight EM switches and ordering information see the "Keysight RF and Microwave Switch Selection Guide", literature number 5989-6031EN
www.keysight.com/find/switches
www.keysight.com/find/mta
www.keysight.com/find/distributors

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

This information is subject to change without notice.
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Published in USA, August 2, 2014
5990-4443EN
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