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Product Fact Sheet

Keysight High Performance Multiport Switches



Keysight 8766/67/68/69 Series



Keysight 87104/106 Series and 87204/206 Series

Keysight's high-performance electromechanical coaxial switches provide reliable switching in signal routing, switch matrices, and ATE systems. With 0.03 dB insertion loss repeatability guaranteed up to 5 million cycles (10 million typical) and exceptional isolation, Keysight high-performance switches provide the performance you need from DC to 50 GHz.

High performance

Superior performance with guaranteed specifications to 50 GHz

- **Guaranteed performance**
  < 0.03 dB insertion loss repeatability guaranteed for 5 million cycles
- **Long operating life**
  10 million cycles (typical)
- **High isolation**
  Typically > 85 dB at 26.5 GHz
- **Low SWR**
  Minimize measurement uncertainty
- **Unique design**
  Wiping action mechanism eliminates particle buildup to ensure reliable switching
- **Broad frequency range**
  DC to 4, 20, 26.5, 40 or 50 GHz

KEYSIGHT TECHNOLOGIES

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
SP3T											
8766K	DC to 26.5	Unterminated	1	100	60	1.5	1.8	20	5	5, 15, 24	3.5 mm (f)
SP4T											
87104A	DC to 4	Terminated	1	50	100	0.36	1.2	15	5	24	SMA (f)
87204A	DC to 4	Terminated	1	50	100	0.36	1.2	15	5	24	SMA (f)
87104B	DC to 20	Terminated	1	50	70	0.6	1.45	15	5	24	SMA (f)
87204B	DC to 20	Terminated	1	50	70	0.6	1.45	15	5	24	SMA (f)
87104C	DC to 26.5	Terminated	1	50	65	0.7	1.7	15	5	24	SMA (f)
87204C	DC to 26.5	Terminated	1	50	65	0.7	1.7	15	5	24	SMA (f)
87104D	DC to 40	Terminated	1	50	65	0.7	1.95	15	5	24	2.92 mm (f)
8767K	DC to 26.5	Unterminated	1	100	60	1.5	1.8	20	5	5, 15, 24	3.5 mm (f)
8767M	DC to 50	Unterminated	1	100	60	2.7	2.3	20	5	5, 15, 24	2.4 mm (f)
SP5T											
8768K	DC to 26.5	Unterminated	1	100	60	1.5	1.8	20	5	5, 15, 24	3.5 mm (f)
8768M	DC to 50	Unterminated	1	100	60	2.7	2.3	20	5	5, 15, 24	2.4 mm (f)
SP6T											
87106A	DC to 4	Terminated	1	50	100	0.36	1.2	15	5	24	SMA (f)
87206A	DC to 4	Terminated	1	50	100	0.36	1.2	15	5	24	SMA (f)
87106B	DC to 20	Terminated	1	50	70	0.6	1.45	15	5	24	SMA (f)
87206B	DC to 20	Terminated	1	50	70	0.6	1.45	15	5	24	SMA (f)
87106C	DC to 26.5	Terminated	1	50	65	0.7	1.7	15	5	24	SMA (f)
87206C	DC to 26.5	Terminated	1	50	65	0.7	1.7	15	5	24	SMA (f)
87106D	DC to 40	Terminated	1	50	65	0.7	1.95	15	5	24	2.92 mm (f)
8769K	DC to 26.5	Unterminated	1	100	60	1.5	2.05	20	5	24	3.5 mm (f)
8769M	DC to 50	Unterminated	1	100	60	2.7	2.3	20	5	5, 15, 24	2.4 mm (f/m)

For more details on Keysight EM Switches and ordering information see the "Keysight RF and Microwave Switch Selection Guide", literature number 5989-6031EN.
For more information on Keysight switches, please visit: www.keysight.com/find/switches
Download or order from www.keysight.com/find/mta
To find a distributor in your area, go to www.keysight.com/find/distributors

High performance multiport switch option

Model	Option type	Option	Option description
87104A / 87104B / 87104C / 87104D / 87106A / 87106B / 87106C / 87106D	Control logic	T24	TTL/5V CMOS compatible logic with 24 Vdc supply
		024	24 Vdc
	DC connectors	161	Ribbon receptacle
		100	Solder terminals
8766K / 8767K / 8768K / 8769K	Coil voltage	024	24 Vdc
		011	5 Vdc
		015	15 Vdc
	RF connector	002	SMA (f) (Use to 18 GHz only)
		004	3.5 mm (f)
	DC connectors	060	5 feet DC control cable; 12-pin viking
		016	16-inch ribbon cable extension

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