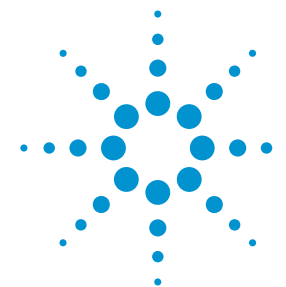


Agilent High Performance Multiport Switches

Agilent'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, Agilent high-performance switches provide the performance you need from DC to 50 GHz.



*Agilent 8766/67/
68/69 Series.*



*Agilent 87104/106 Series
and 87204/206 Series.*

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



Quick Fact Sheet

Agilent High Performance Multiport Switches

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 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

Technical data, availability and pricing subject to change without notice.

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5990-4407EN



Agilent Technologies

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

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