Quick Fact Sheet

Agilent Electromechanical Bypass Switches

Agilent's electromechanical bypass switches provide reliable switching in signal routing, switch matrices and ATE systems. With 0.03 dB insertion loss repeatability at 40 GHz guaranteed up to 5 million cycles (10 million cycles typical) and exceptional isolation, Agilent bypass switches provide the performance you need from DC to 67 GHz.

Agilent 8763A/B/C

Agilent N1812UL

Agilent N1811TL

High performance

- **Guaranteed performance**
  < 0.03 dB insertion loss repeatability at 40 GHz guaranteed for 5 million cycles
- **Long operating life**
  10 million cycles (typical)
- **High isolation**
  Typically > 70 dB at 67 GHz

Quick Fact Sheet

Agilent Electromechanical Bypass Switches

Product specifications

Model	Frequency (GHz)	Termination	Average power (W)	Peak power (W)	Insertion loss (dB)	SWR	Speed (ms)	Life cycle (million)	Driving voltage (Vdc)	RF connectors
N1811TL	DC to 67	Terminated	1	50	1.12	1.90	15	5	5, 15, 24	SMA (f), 2.92 mm, 2.4 mm, 1.85 mm
N1812UL	DC to 67	Unterminated	1	50	1.12	1.90	15	5	5, 15, 24	SMA (f), 2.92 mm, 2.4 mm, 1.85 mm
8763A	DC to 4	Terminated	1	100	0.25	1.2	30	1	5, 15, 24	SMA (f)
8763B	DC to 8	Terminated	1	100	1.3	1.3	30	1	5, 15, 24	SMA (f)
8763C	DC to 26.5	Terminated	1	100	1.8	1.8	30	1	5, 15, 24	3.5 mm (f)
8764A	DC to 4	Unterminated	2	100	0.25	0.25	30	1	5, 15, 24	SMA (f)
8764B	DC to 8	Unterminated	2	100	0.5	0.5	30	1	5, 15, 24	SMA (f)
8764C	DC to 26.5	Unterminated	2	100	1.25	1.25	30	1	5, 15, 24	3.5 mm (f)

Agilent bypass switch option

Model	Option	Option	Option description
N1811TL/ N1812UL	Frequency range	004	DC to 4 GHz
		020	DC to 20 GHz
		026	DC to 26.5 GHz
		040	DC to 40 GHz
		050	DC to 50 GHz
		067	DC to 67 GHz
	Coil voltage	105	5 Vdc and includes option 402
		115	15 Vdc
		124	24 Vdc
	DC connector	201	D-submini 9 pin (f)
		202	Solder lugs
	Performance	301*	High isolation
		302*	Low SWR & insertion loss
		UK6	Calibration certificate with test data
	Drive	401	TTL/5V CMOS compatible
		402	Position indicator

** Not available for option 040, 050 and 067.*

Agilent bypass switch option (continued)

Model	Option	Option	Option description
8763A/ 8763B/ 8763C/ 8764A/ 8764B/ 8764C	Drive	T15	TTL/5V CMOS compatible logic with 15 Vdc supply
		T24	TTL/5V CMOS compatible logic with 24 Vdc supply
	Coil voltage	024	24 Vdc
		011	5 Vdc
		015	15 Vdc

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**

For more details on the Agilent solid state 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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