

Keysight Electromechanical Bypass Switches



Keysight 8763A/B/C



Keysight N1812UL



Keysight N1811TL

The Keysight Technologies, Inc. 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, Keysight bypass switches provide the performance you need from DC to 67 GHz.

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

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)

Keysight 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 ¹	High isolation
		302 ¹	Low SWR & insertion loss
		UK6	Calibration certificate with test data
Drive		401	TTL/5V CMOS compatible
		402	Position indicator

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

Keysight 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
8764C	Coil voltage	024	24 Vdc
		011	5 Vdc
		015	15 Vdc

For more details on the Keysight solid state 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

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