

KEYSIGHT TECHNOLOGIES (AGILENT HP)

87106B

The Keysight 87106B (formerly Agilent) is a high-performance, single-pole six-throw (SP6T) terminated coaxial switch designed for multi-port RF and microwave signal routing. Operating from DC to 20 GHz, it features exceptional isolation, low insertion loss, and outstanding repeatability over a long cycle life, making it a standard choice for automated test and measurement applications.

SPECIFICATIONS

Physical

Weight	0.229 kg kg
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RF Specifications

Switch Configuration	SP6T (Single-Pole Six-Throw)
Switch Type	Terminated (internal 50 Ω loads on unused ports)
Frequency Range	DC to 20 GHz
Impedance	50 Ω
Insertion Loss Repeatability	0.03 dB maximum (up to 5 million cycles)
RF Power Handling (Hot Switching)	2 W CW, 100 W peak (10 μ s pulse width)
Internal Termination Power Rating (Average)	1 W

Switching and Actuator Characteristics

Actuator Type	Latching
Self-Interruption Capability	Yes
Switching Time	< 15 ms
Cycle Life (Guaranteed)	5,000,000 cycles
Cycle Life (Typical)	10,000,000 cycles
Nominal Actuator Voltage (Option 011)	5 VDC
Nominal Actuator Voltage (Option 015)	15 VDC
Nominal Actuator Voltage (Option 024)	24 VDC
Actuator Holding Current	0 mA

Physical and Mechanical

RF Connector Type	SMA (female)
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Environmental

Storage Temperature Range	-55 $^{\circ}$ C to +85 $^{\circ}$ C
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Ordering Options

Option 011	5 VDC Actuator Voltage
Option 015	15 VDC Actuator Voltage
Option 024	24 VDC Actuator Voltage
Option 100	Solder terminals
Option 161	TTL/5V CMOS compatible drive

RF Characteristics

Unused Port Termination	50 Ω
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TECHNOLOGY

Electromechanical Coaxial Switch

APPLICATIONS

RF and microwave signal routing in automated test systems

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.