

KEYSIGHT TECHNOLOGIES (AGILENT HP)

87106C

The Keysight 87106C is a high-performance SP6T electromechanical coaxial switch designed for RF and microwave signal routing from DC to 26.5 GHz. Highly reliable and providing low insertion loss with excellent isolation, it is widely utilized in automated test systems, instrumentation, and telecommunications applications.

SPECIFICATIONS

Physical

Operating Temperature	-25 to +75 °C
Dimensions (W×H×D)	71.1 mm (diameter) × 64.3 mm (height) mm
Weight	0.229 kg

RF Performance Specifications

Frequency Range	DC to 26.5 GHz
Nominal Impedance	50 ohms
Insertion Loss (DC to 4 GHz)	< 0.3 dB
Insertion Loss (18 to 26.5 GHz)	< 1.0 dB
Isolation (DC to 4 GHz)	> 100 dB
Isolation (4 to 12.4 GHz)	> 80 dB
Isolation (12.4 to 18 GHz)	> 70 dB
Isolation (18 to 26.5 GHz)	> 65 dB
VSWR (DC to 4 GHz)	< 1.20
VSWR (4 to 12.4 GHz)	< 1.35
VSWR (12.4 to 18 GHz)	< 1.45
VSWR (18 to 26.5 GHz)	< 1.70

Switching & Electrical Characteristics

Switch Configuration	SP6T (Single Pole, Six Throw)
Switching Speed	< 15 ms

Mechanical & Physical Properties

RF Connector Type	SMA (female)
Mechanical Lifetime	5,000,000 cycles (minimum)
Switching Repeatability (Insertion Loss)	0.03 dB (typical up to 5,000,000 cycles)

Environmental & Reliability

Storage Temperature Range	-55 °C to +85 °C
Mechanical Shock	500 g at 0.5 ms (half-sine)
Relative Humidity Range	95% RH at 40 °C for 5 days (non-condensing)
Operating Altitude Range	up to 4,600 meters (15,000 feet)
Non-operating Altitude Range	up to 15,300 meters (50,000 feet)

Performance

Switching Type	Break-before-make
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TECHNOLOGY

Electromechanical coaxial switch

APPLICATIONS

RF and microwave signal routing

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