

## KEYSIGHT TECHNOLOGIES (AGILENT HP)

# 8493B

The Keysight (Agilent/HP) 8493B is a precision coaxial fixed attenuator providing flat frequency response, low SWR, and accurate attenuation over a broad DC to 18 GHz frequency range. It features standard SMA male and female connectors, 2 W average power handling, and is available in 3, 6, 10, 20, and 30 dB nominal attenuation variants. The unit is swept-frequency tested and features calibration points printed directly on its nameplate.

### SPECIFICATIONS

#### Electrical Specifications

|                                        |                                                              |
|----------------------------------------|--------------------------------------------------------------|
| Frequency Range                        | DC to 18 GHz                                                 |
| Nominal Impedance                      | 50 $\Omega$                                                  |
| Nominal Attenuation                    | 3, 6, 10, 20, or 30 dB (option dependent)                    |
| Attenuation Accuracy (3, 6, 10, 20 dB) | $\pm 0.3$ dB (DC to 12.4 GHz), $\pm 0.5$ dB (12.4 to 18 GHz) |
| Attenuation Accuracy (30 dB)           | $\pm 0.6$ dB (DC to 12.4 GHz), $\pm 1.0$ dB (12.4 to 18 GHz) |
| VSWR (DC to 8 GHz)                     | 1.15:1 maximum                                               |
| VSWR (8 GHz to 12.4 GHz)               | 1.25:1 maximum                                               |
| VSWR (12.4 GHz to 18 GHz)              | 1.35:1 maximum                                               |
| Maximum Average Power                  | 2 W                                                          |
| Maximum Peak Power                     | 100 W                                                        |

#### Mechanical Specifications

|                    |        |
|--------------------|--------|
| Connector Type 1   | SMA    |
| Connector Gender 1 | Male   |
| Connector Type 2   | SMA    |
| Connector Gender 2 | Female |

#### General Specifications

|         |                                              |
|---------|----------------------------------------------|
| Testing | Swept-frequency tested across specified band |
|---------|----------------------------------------------|

### TECHNOLOGY

Coaxial

### APPLICATIONS

RF & Microwave Test

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