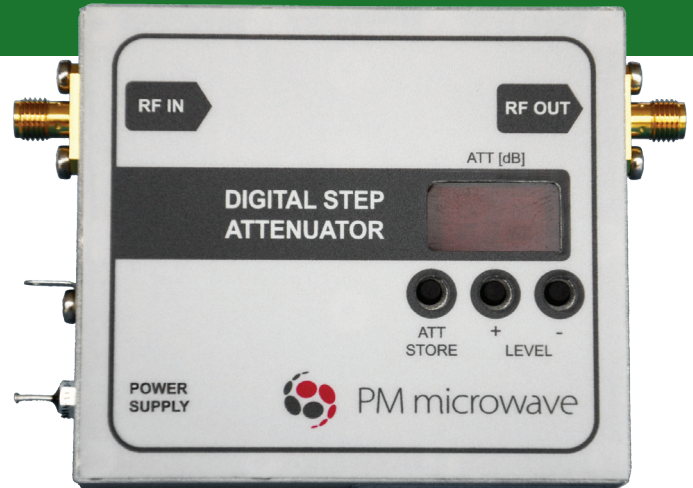


DSA

DIGITAL STEP ATTENUATOR

Applications

- ▶ Verification of receive systems
- ▶ Sensitivity tests on radios
- ▶ Lab measurements and applications



The Digital Step Attenuator finds particular use in laboratory measurements, where it is necessary to insert a known value of attenuation on the path of RF signals, e.g., for the sensitivity characterization of radio devices. This device provides attenuation values between 4 and 66 dB, at steps of 1 dB, and can be crossed by RF signals with frequencies between 100 and 3000 MHz and powers up to +27 dBm. The value of attenuation can be set through pushbuttons and is displayed on seven-segment displays.

TECHNICAL SPECIFICATIONS*

*specifications may be changed in accordance with the technical department

RF CHARACTERISTICS

| | |
|------------------------|--|
| Frequency range | 100 ÷ 3000 MHz |
| Attenuation range | 4 ÷ 66 dB |
| Attenuation step | 1 dB |
| Attenuation accuracy | 100 ÷ 2000 MHz ±0,6 dB typ. @ 4 dB ±1,0 dB typ. @ 20 dB ±1,2 dB typ. @ 40 dB ±1,4 dB typ. @ 66 dB |
| | 2000 ÷ 3000 MHz ±1,6 dB typ. @ 4 dB ±2,8 dB typ. @ 20 dB ±1,9 dB typ. @ 40 dB ±1,4 dB typ. @ 66 dB |
| Max. input power | +27 dBm |
| Input return loss | > 13 dB |
| Input/output impedance | 50 Ω |

GENERAL

| | |
|---------------------------|--|
| RF connectors | 2 × SMA female 50 Ω |
| Power connector | SMB male |
| Local control | 3 × pushbuttons 2 × 7-segments displays |
| Power supply | 9 ÷ 12 Vdc |
| Power consumption | 1.5 W max |
| Operating temperature | -10 ÷ +45 °C |
| Storage temperature | -20 ÷ +80 °C |
| Storage relative humidity | 10% ÷ 80% |
| Dimensions | 96 × 68 × 18 mm |
| Weight | 0.17 kg |
| Protection degree | IP50 |