

# Programmable Attenuators up to 20 GHz



## TECHNICAL SPECIFICATIONS

- **Frequency range**  
DC to 20 GHz continuous coverage
- **Channel configurations**  
1, 4, 8, 12, and 16-channel variants available
- **Scalability**  
Handover test systems supporting up to 512 integrated channels
- **Operating environment**  
Designed for laboratory, production, and field deployment
- **Control interface**  
USB digital programming for automated test sequences
- **Attenuation accuracy**  
Stepped resolution with high insertion loss consistency
- **Connector options**  
Standard RF connectors suitable for broadband measurements

## APPLICATIONS

Component characterization:  
Measurement of gain  
compression, linearity, and  
frequency response across  
temperature and bias variations

Receiver testing: Dynamic range  
assessment and noise figure  
validation in LNA and  
superheterodyne designs

Transmitter validation: Power  
sweep analysis, P1dB  
determination, and output stage  
characterization

Automated test systems:  
Integration into ATE platforms  
requiring coordinated  
attenuation control across  
multiple signal paths

5G and beyond: Sub-6 GHz and  
mmWave band testing for  
cellular infrastructure and end-  
device validation

SATCOM and defense: Link  
budget simulation and  
interference testing in tactical  
communication systems