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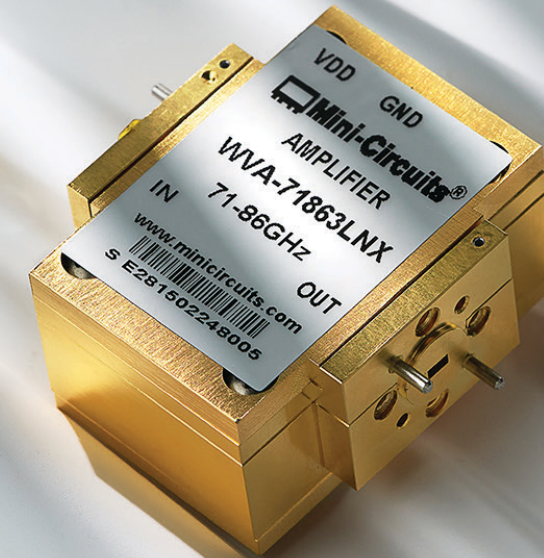
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 Mini-Circuits®



UP TO 110 GHz

High-Frequency Solutions

Amplifiers & Modules for mmWave Applications

-  Solutions covering Ka-Band through W-Band
-  Designed & built in-house
-  All catalog models in stock
-  Custom capabilities

 Mini-Circuits®



Portfolio Overview

High-Frequency Amplifiers

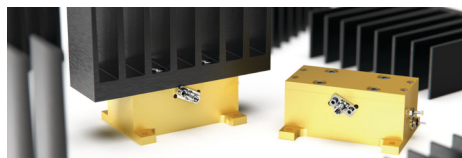
Mini-Circuits' high-frequency amplifiers are ideal for extending power and dynamic range in millimeter wave test setups from Ka-band through W-band. All models feature extensive built-in protections and wide DC voltage range for high reliability and ease of use. Our flexible design platform and in-house production capability also enables fast, affordable customizations for your special requirements.

WAVEGUIDE AMPLIFIERS



- Bandwidths from 40 to 110 GHz
- Low noise, high gain & medium power options
- WR10, WR12, WR15 & WR15 interfaces
- Ideal for TRP & TIS over-the-air testing

CONNECTORIZED AMPLIFIERS



- Bandwidths from 50 kHz to 95 GHz
- 2.92, 2.4, 1.85 & 1.0mm connector options
- Gain up to 45 dB
- NF as low as 1.7 dB
- Power up to 1W

VARIABLE GAIN AMPLIFIERS

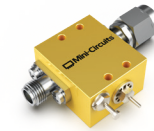


- Bandwidths from 18 to 54 GHz
- Gain up to 50 dB
- Calibrated 17 dB attenuation with analog or TTL control
- PSAT up to +1W
- Interactive GUI with telemetry

More High-Frequency Modules

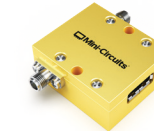
To support additional functionality in high-frequency test setups, Mini-Circuits has developed a wide selection of high-frequency modules as companion products to our amplifier lineup. The product line has developed in response to customers' needs, and we continue to partner with customers at the engineering level to deliver new products and capabilities and support project success.

BIAS TEES



- 10 to 54 GHz
- DC current up to 250mA
- RF power up to +30 dBm
- >30 dB isolation
- Low insertion loss

DIGITAL STEP ATTENUATORS



- 100 MHz to 50 GHz
- 0 to 31.5 dB attenuation
- 0.5 dB step size
- 6-bit parallel control
- +50 dBm IIP3

FREQUENCY MIXERS



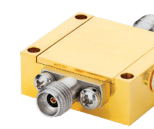
- LO/RF from 5 to 65 GHz
- IF from DC to 20 GHz
- Double-balanced and I/Q designs
- +15 dBm LO power
- Excellent L-R isolation

FREQUENCY MULTIPLIERS



- Output from 10 to 40 GHz
- Wide input power range spanning +11 to +22 dBm
- Low conversion loss
- Excellent harmonic suppression

POWER DETECTORS



- 0.1 to 43.5 GHz
- -35 to +15 dBm
- Single supply voltage
- CW & RMS models

SWITCHES



- 10 MHz to 67 GHz
- 45 dB isolation
- Supports bi-directional use
- All-off state available
- Convenient digital snap-fit connector