

MITEQ INC. introduces a new addition to its family of broad-band high power amplifiers. AMF-2B-00030300-150-32P is a connectorized high power amplifier, covering an ultra broad bandwidth of 30 MHz-3 GHz and delivering approximately 2.5W of power. The SMA connectorized Aluminum housing is intended for bolting to a flat cooling surface or fins. Housing is environmentally sealed and EMI shielded. PA includes reverse voltage protection, in addition to full internal regulation.

Nominal small-signal gain is 20 dB while noise figure is close to 9 dB across most of the band. NF rises to 15 dB or so below 500 MHz. Output IP3 is a minimum of 35 dBm across the full band. Input VSWR is a maximum of 1.85:1 and output is a maximum of 2.4:1 over the full band.

Amplifier is 42 mm long, 37 mm wide, and 11 mm high excluding the SMA(F) connectors. Operating temperature is -10°C to 50°C .

Current draw is nominally 550 mA at P1dB from 23.5 VDC of supply. Separate $-6\text{V}/10\text{ mA}$ also needs to be provided. Positive supply rail is gated by the negative bias input thus minimizing accidental damage to the device.



MITEQ

30 MHz-3GHz High Power



- 2.5W From 50 MHz to 2.5 GHz
- 1.5W From 30 MHz to 3 GHz
- 20 dB gain
- +/- 1.3 dB flat
- 35 dBm IP3 Min.
- 10 dB NF, >500 MHz
- 23.5 VDC / 600 mA
- -6V / 10 mA
- -10 to 50 C⁰ case
- 42 x 37 x 11 mm

AMF-2B-00030300-150-32P

