

MITEQ INC. introduces a new addition to its family of wideband high power amplifiers. AMF-5B-07001150-50-37P is a connectorized high power amplifier/module, covering 7-10.5 GHz and delivering approximately 5W P1dB.

Amplifier delivers about 8W of P1dB from 9 GHz to 10.5 GHz.

The connectorized Aluminum housing is 25.2 mm high, 82.3 mm long and 83.8 mm wide. Connectors are female, SMA. It is intended for bolting to a flat cooling surface. Housing is environmentally sealed, EMI shielded and hermetic sealing option is also available.

This module has internal regulation, over voltage, temperature and reverse polarity protection. Single +12 to +15V supply is required. PA is fully compliant over a base temperature range of  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

Nominal small-signal gain is near 35 dB with a gain flatness of less than  $\pm 2$  dB. Gain variation over temperature extremes is less than  $\pm 1$  dB. RF port VSWRs are less than 2:1 and NF is less than 5dB. Output IP3 is typically 42 dBm.

Current draw is nominally 2.7A and 4A at P1dB. Heatsink and TTL control are optional.



# 7-11.5 GHz 5W Power Amplifier



- 10W Psat
- 5W P1dB Min
- 42 dBm IP3
- 35 dB Gain
- 5 dB NF
- 15V DC Supply
- 4A Max
- 82 x 83 x 25 mm

**AMF-5B-07001150-50-37P**

