

MITEQ INC. introduces a new addition to its family of wideband high power amplifiers. AMF-5B-09001050-40-39P is a connectorized high power amplifier/module, covering 9-10.5 GHz and delivering approximately 8W P1dB.

Amplifier delivers about 5W from 7 GHz to 11.5 GHz, with some degradation in NF and gain.

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.

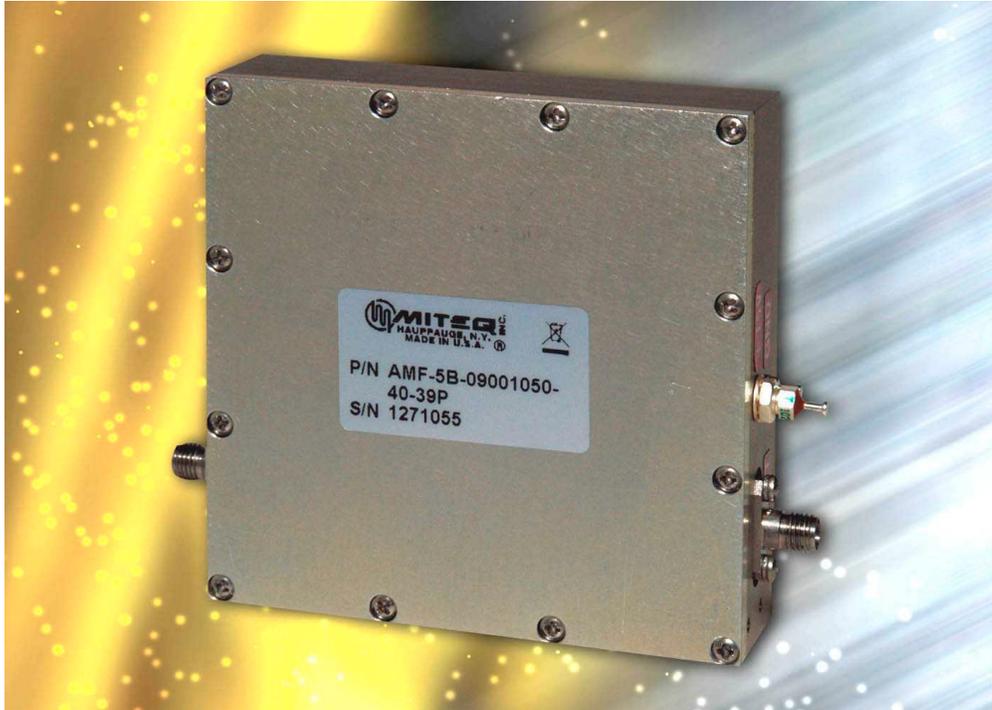
This module has internal regulation, over voltage, temperature and reverse polarity protection. Single +12 to +15V supply is required. PA is fully compliant over a base temperature range of  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

Nominal small-signal gain is near 38 dB with a gain flatness of less than  $\pm 1$  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 4dB. Output IP3 is typically 42 dBm.

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



# 9-10.5 GHz 8W Power Amplifier



- 10W Psat
- 8W P1dB Min
- 42 dBm IP3
- 38 dB Gain
- 3.5 dB NF
- 15V DC Supply
- 4A Max
- 82 x 83 x 25 mm

AMF-5B-09001000-40-39P

