

MITEQ INC. introduces a new addition to its family of wideband high power amplifiers. AMF-5B-08500960-40-41P is a connectorized high power amplifier/module, covering 8.5-9.6 GHz and delivering approximately 12W at P1dB, with proven fast pulse operation.

The Aluminum housing is 24.5 mm high, 110 mm long and 72.7 mm wide, excluding the SMA(F) connectors. Various heat sink options are available for cooling from either top, or bottom or both. Housing is environmentally sealed and EMI shielded. PA normally comes with a field replaceable isolator at the output for RF protection.

This module has internal regulation, over voltage, temperature and reverse polarity protection. Single +14 to +15V supply is required. PA is fully compliant over a base temperature range of  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

Nominal small-signal gain is near 40 dB with a gain flatness of less than  $\pm 1.5$  dB. Gain variation over temperature extremes is less than  $\pm 1$  dB. RF port VSWRs are less than 2:1 at input and 1.5:1 at the output, and NF is less than 4dB. Output IP3 is typically 50 dBm.

Current draw is nominally 4A quiescent and 5.5A at P1dB. TTL power control is optional.



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## 8.5-9.6 GHz 12W Power Amplifier



- 13W Psat
- 12W P1dB Min
- 50 dBm IP3
- 40 dB Gain
- 3.5 dB NF
- 15V DC Supply
- 5.5A Max
- 110 x 73 x 25 mm

