

MITEQ INC. introduces a new addition to its family of broad-band high power amplifiers. AMF-8F-27003150-55-30P is a connectorized high power gain module, covering SATCOM bands 27 to 31.5 GHz and delivering approximately 1W of power. The connectorized high thermal performance housing is 0.37" (9.3 mm) high, 1" (25.5 mm) long (without connectors) and 0.83" (21 mm) wide (without the DC pins). Total length including the field-replaceable 2.92 mm K-connectors is 1.76" exactly.

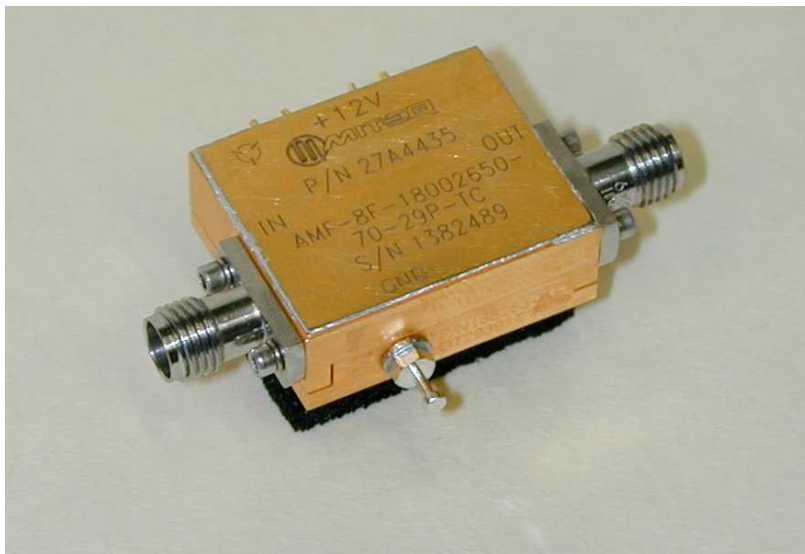
It is intended for bolting to a flat cooling surface. Housing can be hermetically or environmentally sealed.

Regulation and bias sequencing is internal, so only a single +10-15V supply is required. Typical current draw is near 1.2A linear and about 1.7A at full power. Operational from -40°C to 85°C base plate temperature, with about 1 dB degradation in power and gain.

Nominal small-signal gain is 35 dB minimum, ± 1.5 dB, while noise figure is close to 4.5 dB typical. Port VSWRs are less than 2.3:1. Minimum P1dB is about 30 dBm. Output IP3 is a minimum of 33 dBm and a typical of 37 dBm across the full band.



27-31.5 GHz Power Amplifier Module



- 1W From 27 to 31.5 GHz
- 40 dB Gain Typ.
- 37 dBm IP3 Typ.
- 5.5 dB NF Max.
- 10-15V DC Supply
- 1.2A Typ.
- -40 to 85 C° case
- 1 x 0.83 x 0.37 inches w/o K-connectors
- 1.76" total length

AMF-8F-27003150-55-30P

