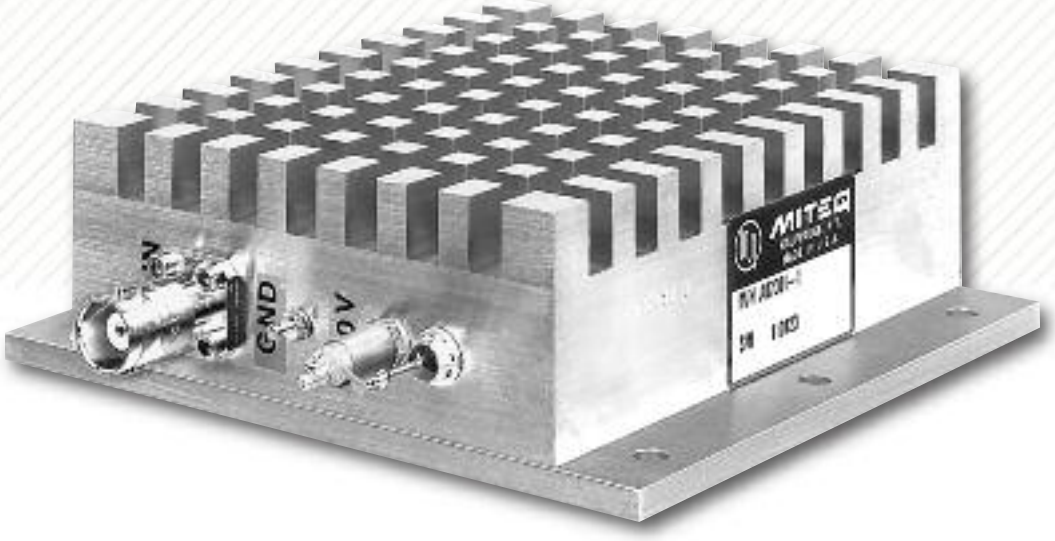
70 ±20 MHz, 140 ±40 MHz 1 Watt Power Amplifiers



These IF amplifiers are designed to be used in line driver applications. They include an integrated heatsink to maximize reliability. Mounting holes are provided for easy installation in rack-mount chassis.

These amplifiers can also be purchased from MITEQ, integrated in a dual-channel IF line driver amplifier system (data sheet D-85) or a redundant amplifier system (data sheet D-108).

Frequency (MHz)	Impedance (Ohms)	Input Connector	Outline Number	Model Number
50–90	75	BNC female	136383	A07001-1
50–90	50	BNC female	136383	A07001-2
100–180	75	BNC female	136383	A14051-1
100–180	50	BNC female	136383	A14051-2
50–90	75	SMA female	135673	A07002-1
50–90	50	SMA female	135673	A07002-2
100–180	75	SMA female	135673	A14052-1
100–180	50	SMA female	135673	A14052-2

Features

- **Integrated heatsink**
- **High third order intercept point**
- **Low input/output VSWR**
- **BNC female output connector**

Options

- **BNC or SMA female input connector**
- **50 or 75 ohm impedance**

Specifications

Nondamage power input	+10 dBm maximum
Gain	35 dB typical
Gain flatness	±0.25 dB peak-to-peak
Output (1 dB compression point)	+31 dBm minimum
Intermodulation distortion (third order)	At +10 dBm output, 62 dBc maximum
Noise figure	3 dB maximum
VSWR (input/output)	1.22:1 maximum

General Specifications

Power Requirements

Voltage ..... 15 to 20 VDC
Current consumption
- 50 ohm models ..... 550 mA typical, 650 mA maximum
- 75 ohm models ..... 650 mA typical, 700 mA maximum

Physical

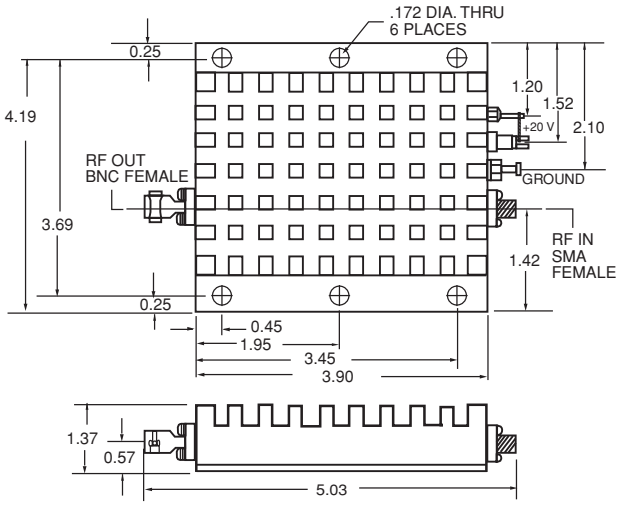
DC input connector ..... Solder pins
Weight ..... 1 pound (0.04 kg) typical

Environmental

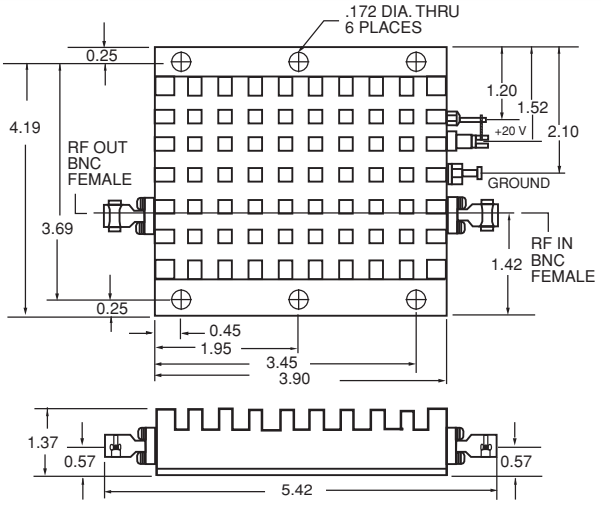
Operating
- Ambient temperature ..... 0 to 60°C
- Atmospheric pressure ..... Up to 10,000 feet
- Relative humidity ..... Up to 95% at 30°C

Nonoperating
- Temperature ..... -50 to +70°C
- Atmospheric pressure ..... Up to 40,000 feet
- Shock and vibration ..... Normal handling by commercial carriers

Outline #135673



Outline #135383



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