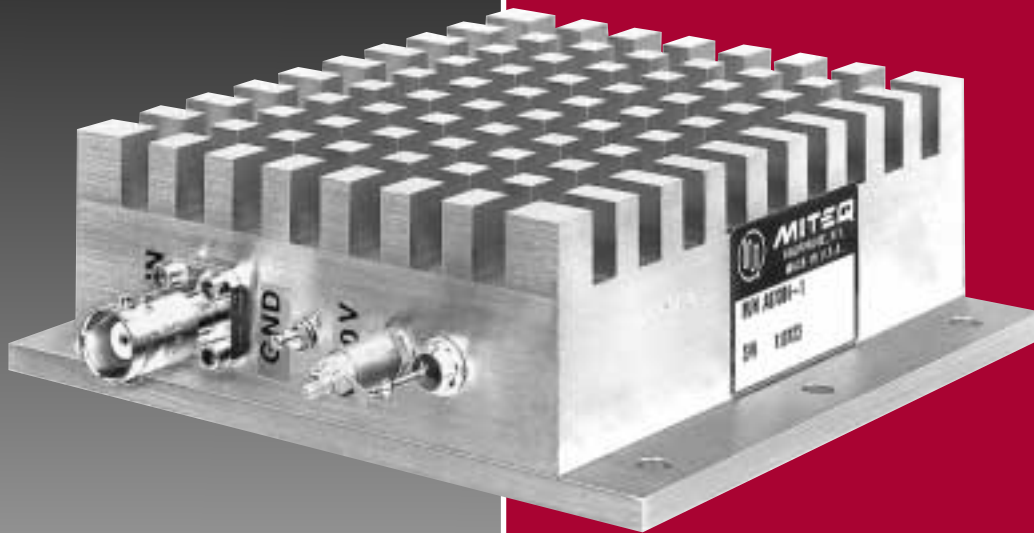




# 70 ±20 MHz 140 ±40 MHz 1 WATT POWER AMPLIFIERS



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).

## 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

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

# 70/140 MHz 1 WATT POWER AMPLIFIERS

## RF 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

## 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 typical

## ENVIRONMENTAL

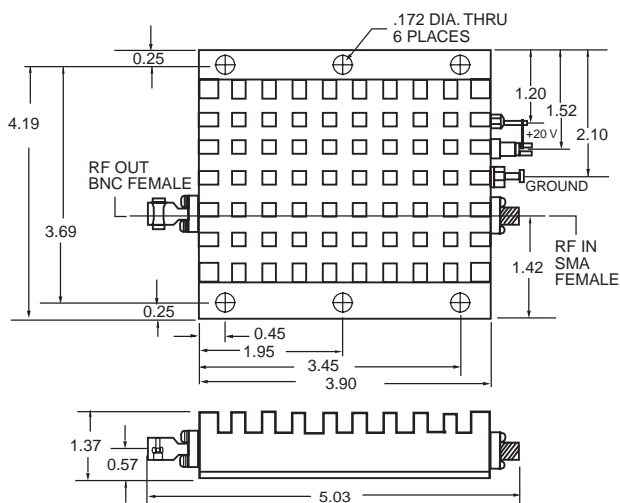
### Operating

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

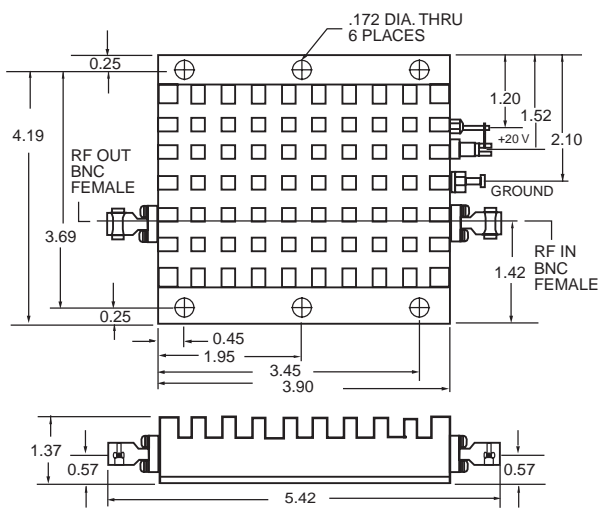
### Nonoperating

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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