

## DESCRIPTION

AMCOM's AM001019F-1H is a Low noise amplifier module designed for general purpose applications. It operates from 1MHz to 1000MHz with a typical noise figure of 2.8dB the LNA module has 4 screw slots for mounting to a heat sink. This module is compact and light weight at 1.1" (L) x 0.66" (W) x 0.3" (H).



## FEATURES

- Wide bandwidth from 1 to 1000MHz
- NF 2.8dB
- Gain 24dB
- Input / Output matched to 50 Ohms
- Supply Voltage +12V

## APPLICATIONS

- TR Modules
- Communication systems
- Instrumentation and measurements
- Military and Aerospace
- Radar systems

## TYPICAL PERFORMANCE \* (Quiescent bias is +12V, I<sub>ddq</sub>= 90mA)

Parameters	Minimum	Typical **	Maximum
Frequency	10-800 MHz	1-1000 MHz	
Small Signal Gain		24	
Gain Ripple		± 1 dB	± 2 dB
P1dB		19 dBm	
Noise Figure		2.8 dB	
IP3		35 dBm	
Input Return Loss		15 dB	
Output Return Loss		10 dB	
DC power supply		+12V	+15V
Supply current		90mA	100mA

\* Notes:

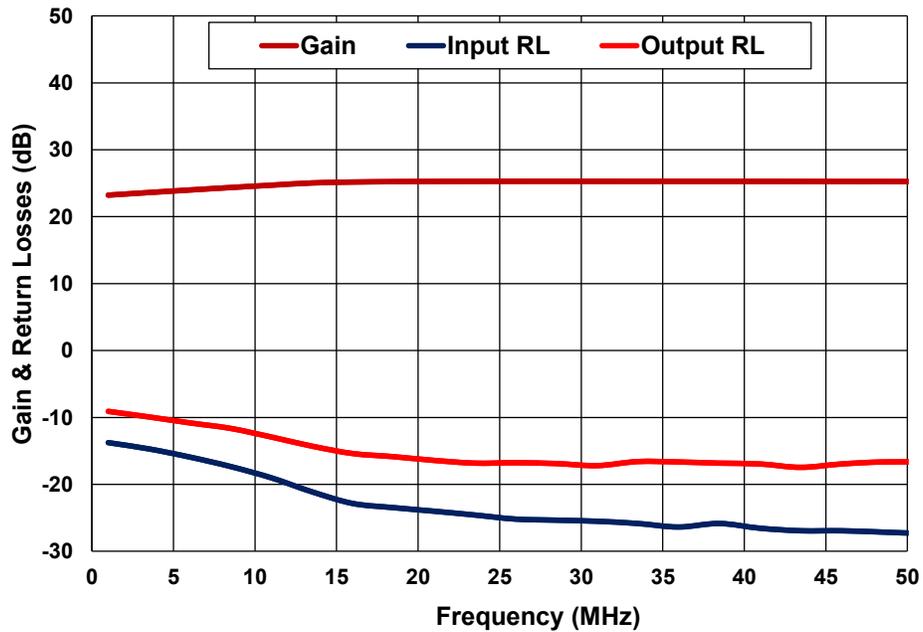
- 1- Specifications are subject to change without notice.
- 2- Proper heat sink should be used to remove heat from bottom of package.

**ABSOLUTE MAXIMUM RATING**

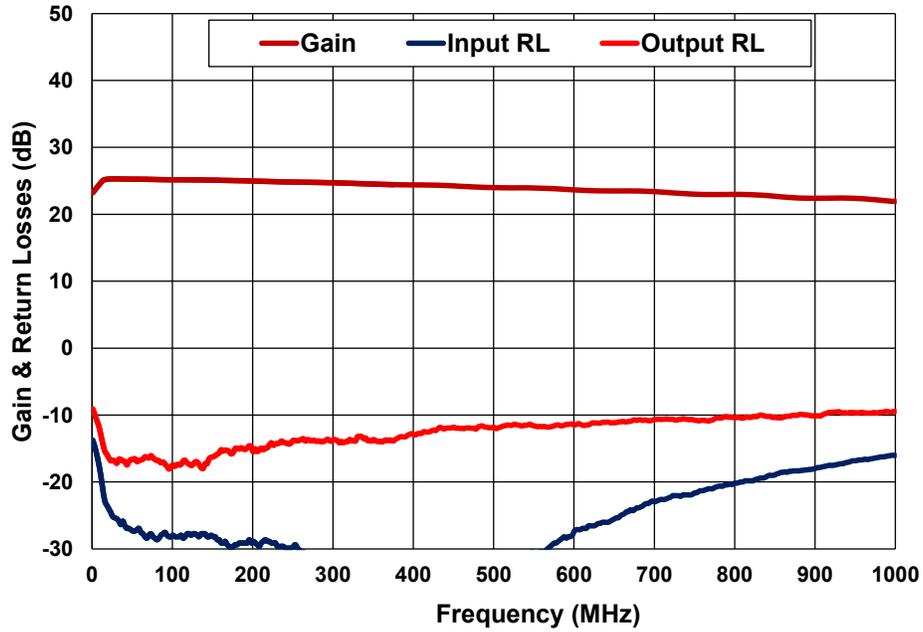
Parameters	Symbol	Rating
Maximum RF input	$RF_{in\ max}$	+10 dBm
Drain source voltage	$V_{dd}$	15V
Continuous dissipation at 25°C	$P_t$	1.5W
Operating temperature	$T_{op}$	-40°C to +85°C
Storage temperature	$T_{sto}$	-40°C to +125°C

**SMALL SIGNAL DATA**

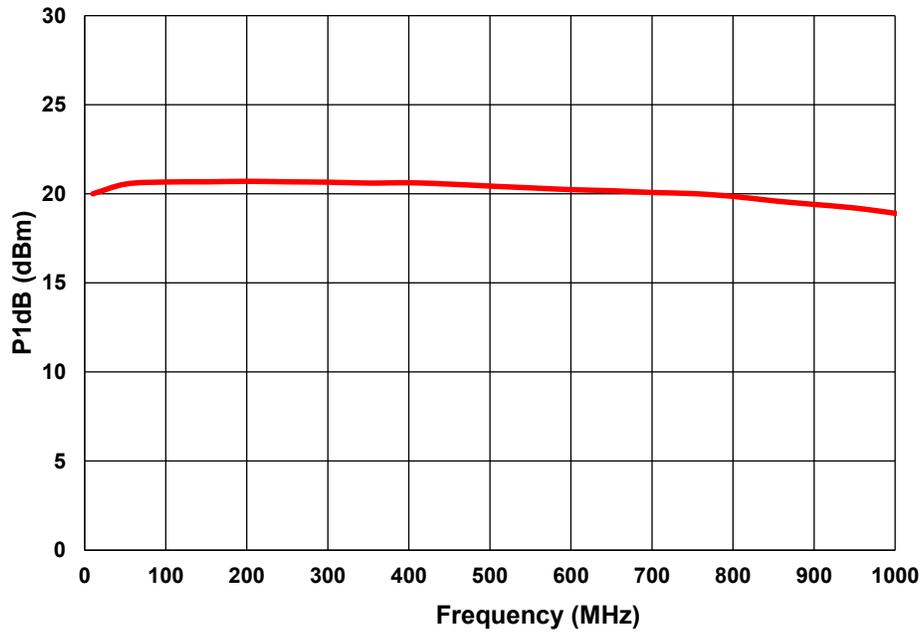
(1 - 50 MHz)



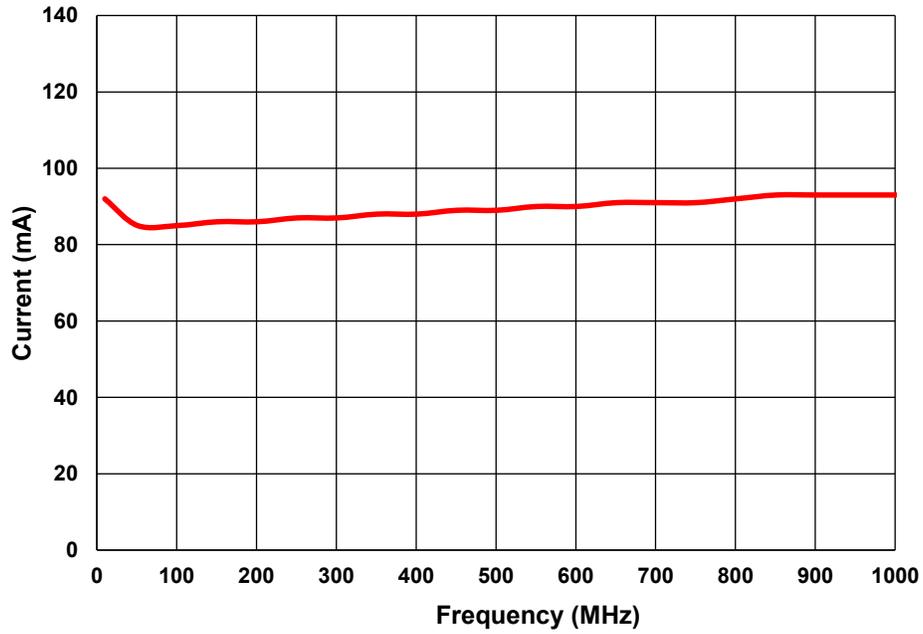
(1 - 1000 MHz)



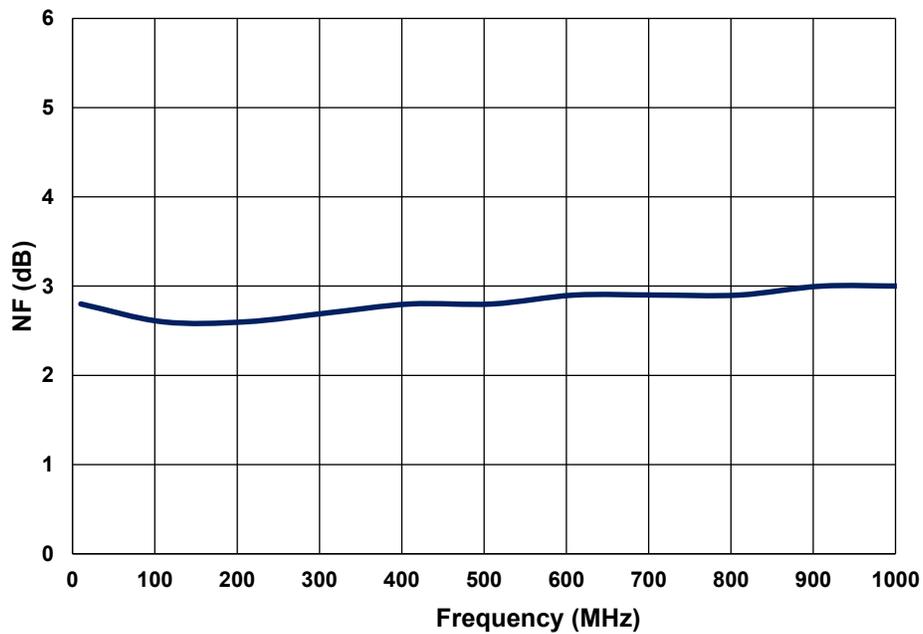
POWER DATA



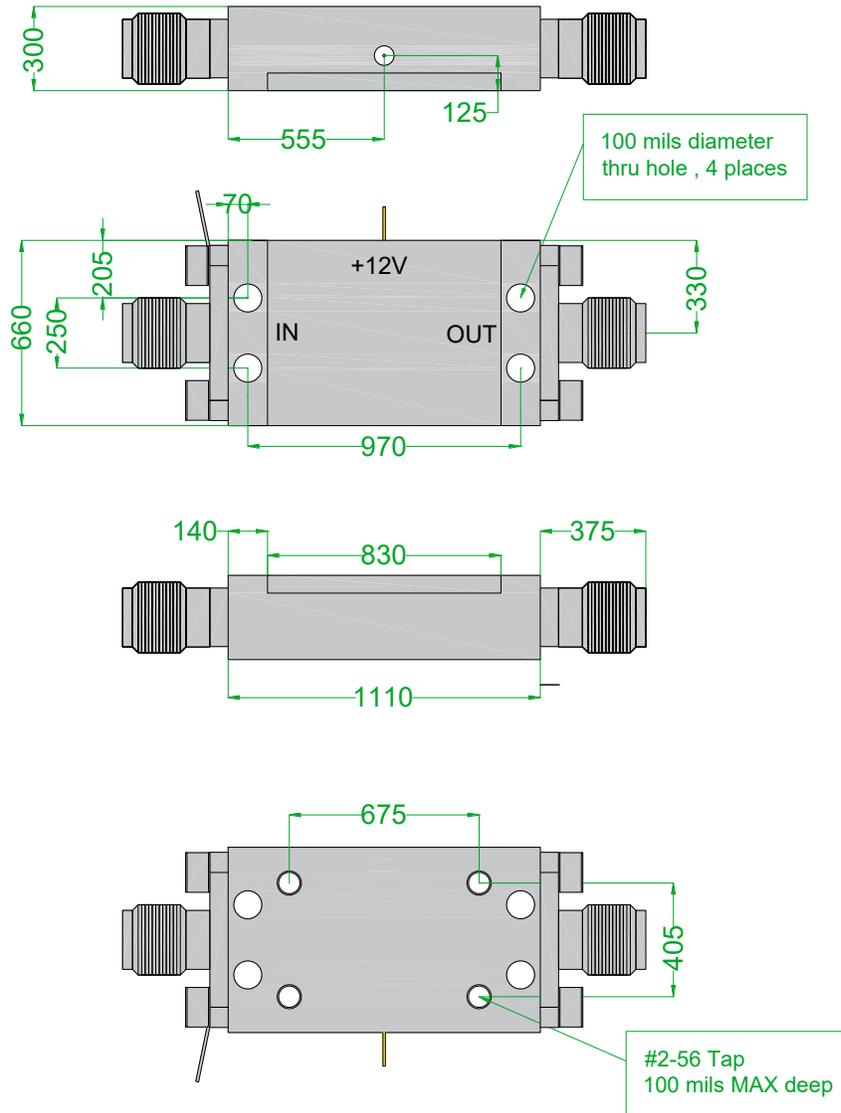
CURRENT



NOISE FIGURE



PACKAGE OUTLINE



Notes:

- Dimensions in mils
- Tolerance is 3 mils