

DESCRIPTION

AMCOM's AM008020SF-2H is a Low noise amplifier module designed for general purpose applications. It operates from 20MHz to 8000MHz with a typical noise figure of 2.6dB 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 20 to 8000MHz
- NF 2.6 dB
- Gain 28dB
- 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_{ddq}= 140mA)

Parameters	Minimum	Typical **	Maximum
Frequency	50-6000 MHz	20-8000 MHz	
Small Signal Gain		28	
Gain Ripple		± 1 dB	± 2 dB
P1dB		20 dBm	
Noise Figure		2 dB	
IP3		30 dBm	
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC power supply		+12V	+15V
Supply current		140mA	195mA

* Notes:

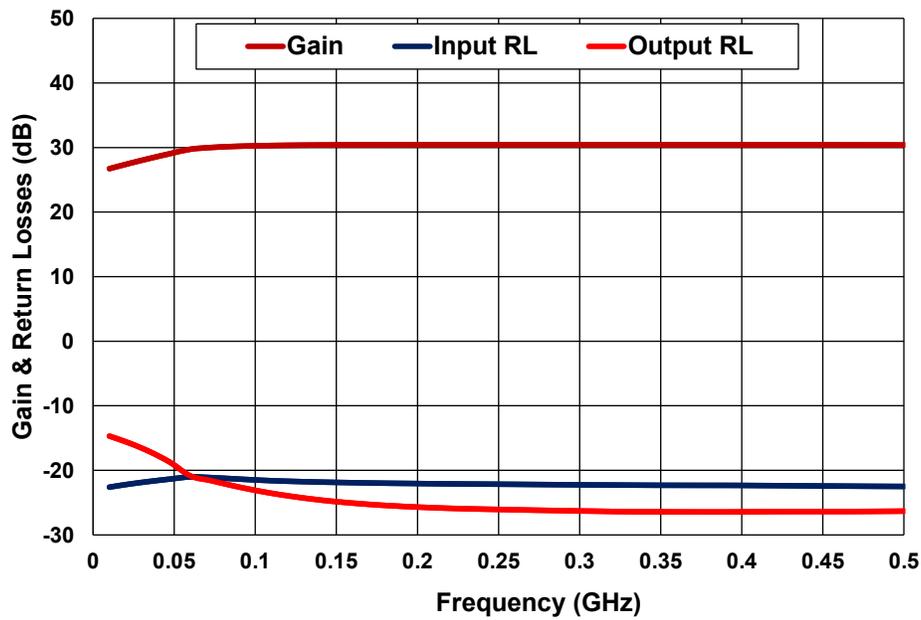
- 1- Specifications are subject to change without notice.
- 2- Proper heat sink should be used to remove heat from bottom of package.

ABSOLUTE MAXIMUM RATING

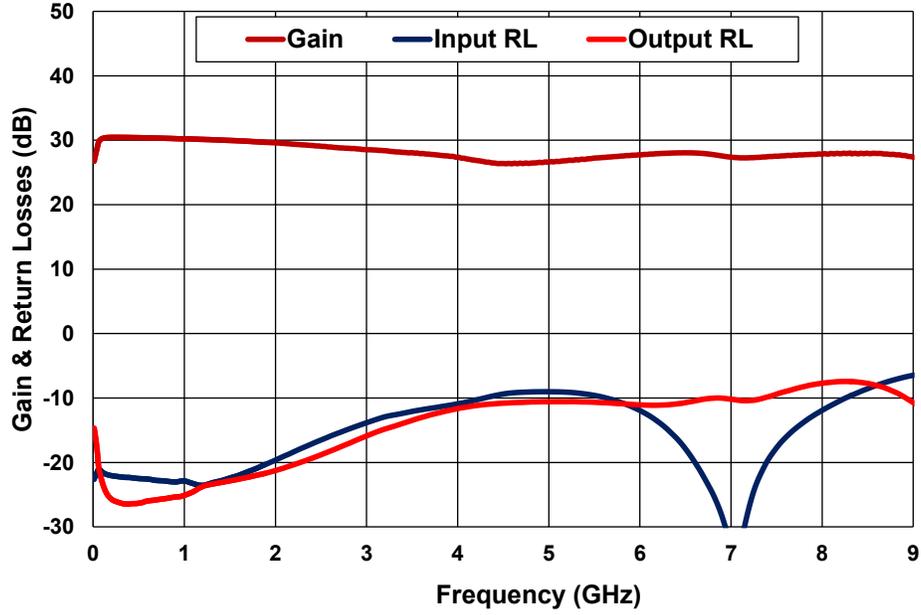
Parameters	Symbol	Rating
Maximum RF input	$RF_{in\ max}$	+10 dBm
Drain source voltage	V_{dd}	15V
Continuous dissipation at 25°C	P_t	2.9W
Operating temperature	T_{op}	-40°C to +85°C
Storage temperature	T_{sto}	-40°C to +125°C

SMALL SIGNAL DATA

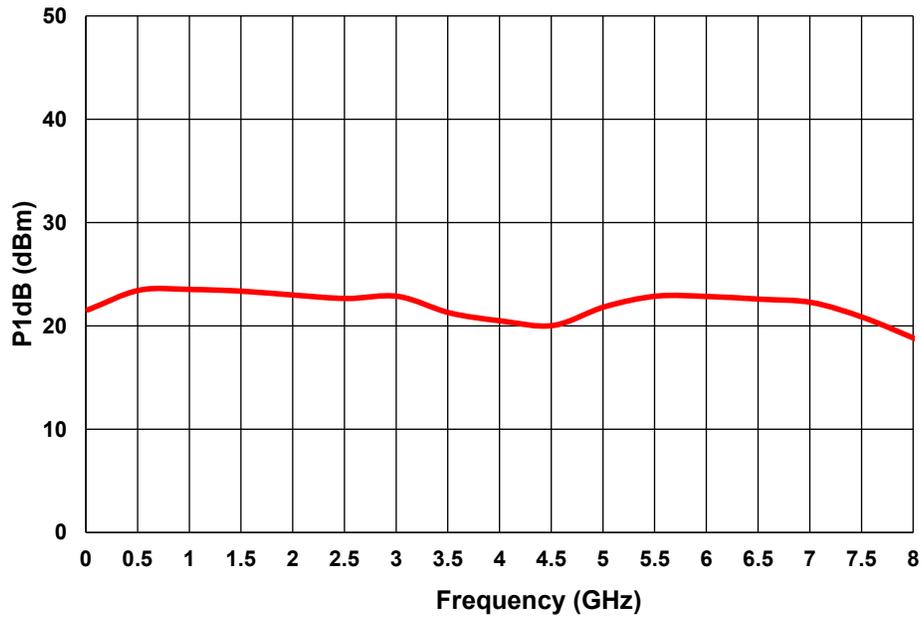
(10 - 500 MHz)



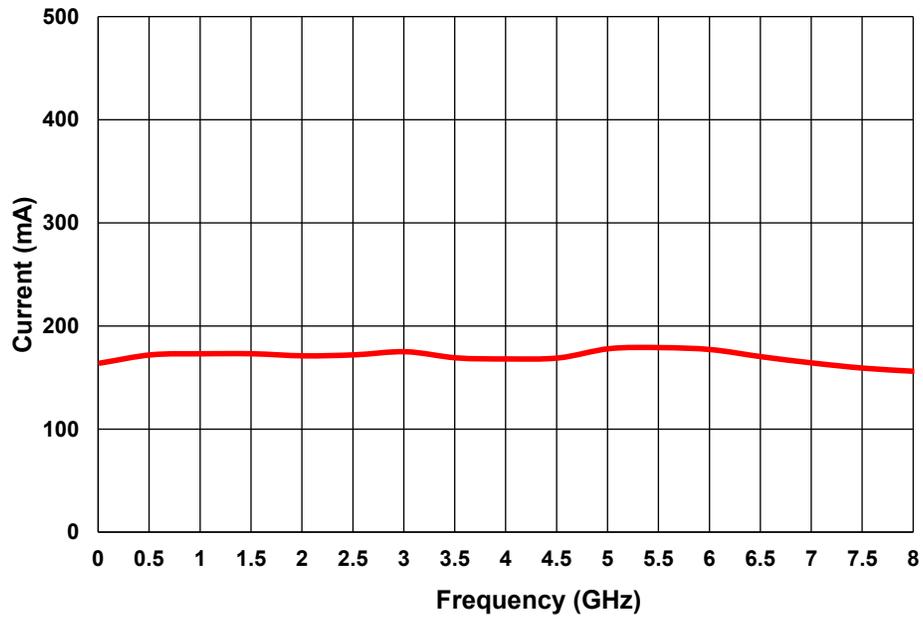
(10 - 9000 MHz)



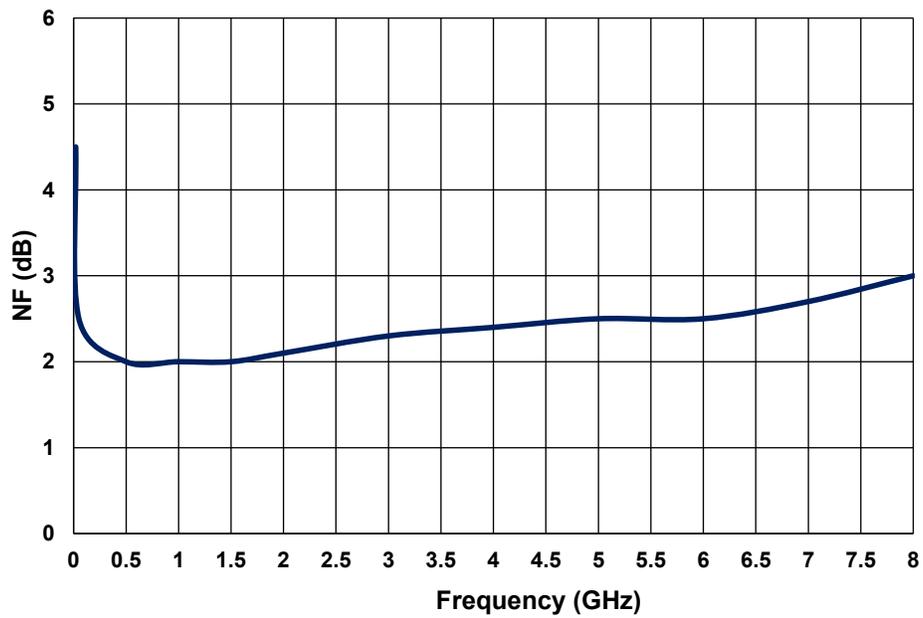
POWER DATA



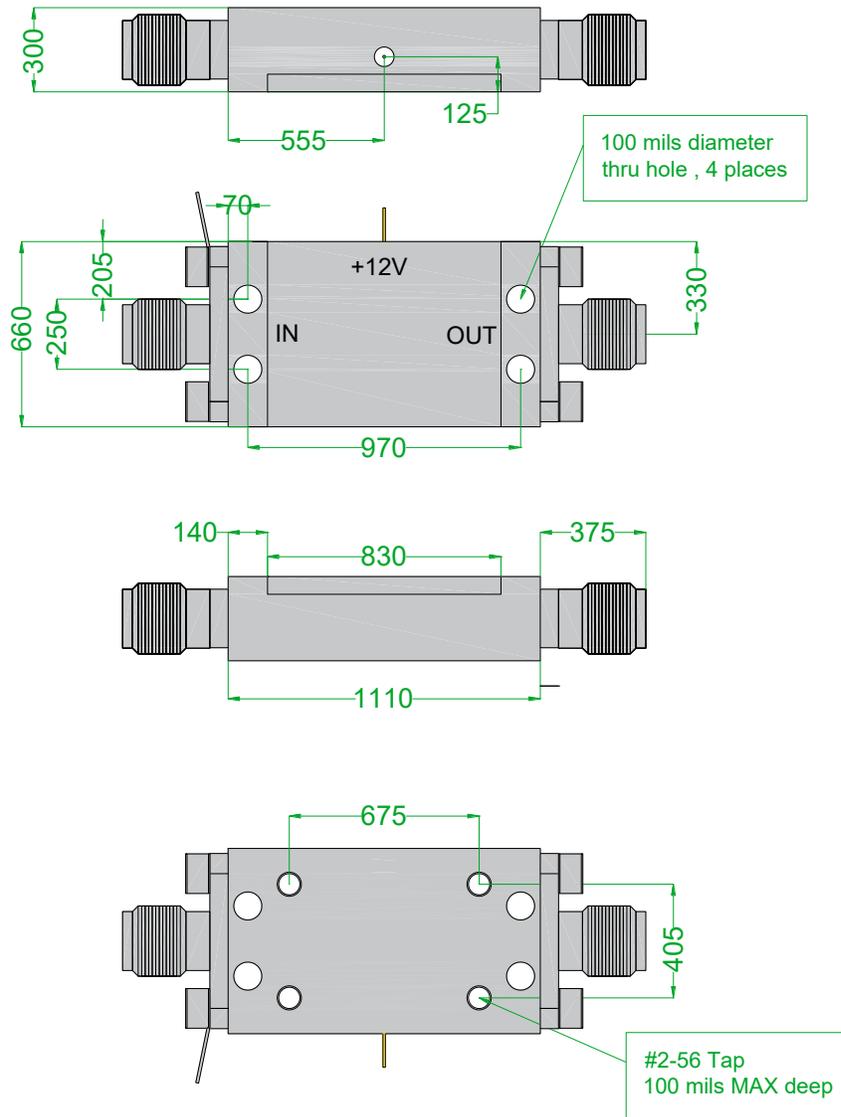
CURRENT



NOISE FIGURE



PACKAGE OUTLINE



Notes:

- Dimensions in mils
- Tolerance is 3 mils