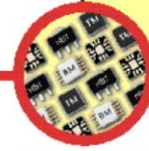




Power Amplifier Module 6 – 18.0GHz 20dB Gain, 28dBm

AM06018030SF-2H
February 2026
Preliminary



DESCRIPTION

AMCOM's AM06018030SF-2H is a broadband Power Amplifier module designed for general purpose applications. It operates from 6 to 18GHz and typically delivers 28.5dBm of CW output power and 20dB small signal gain. This amplifier module is compact and light weight at 1.26" (L) x 1.26" (W) x 0.39" (H).



FEATURES

- Broadband from 6 to 18GHz
- Power handling is 28.5 dBm
- Single supply voltage
- Input & output matched to 50 Ohms

APPLICATIONS

- Software Radio
- Broadband communications
- Lab Measurements
- Military and aerospace

TYPICAL PERFORMANCE (Quiescent bias is +6V, 650mA)*

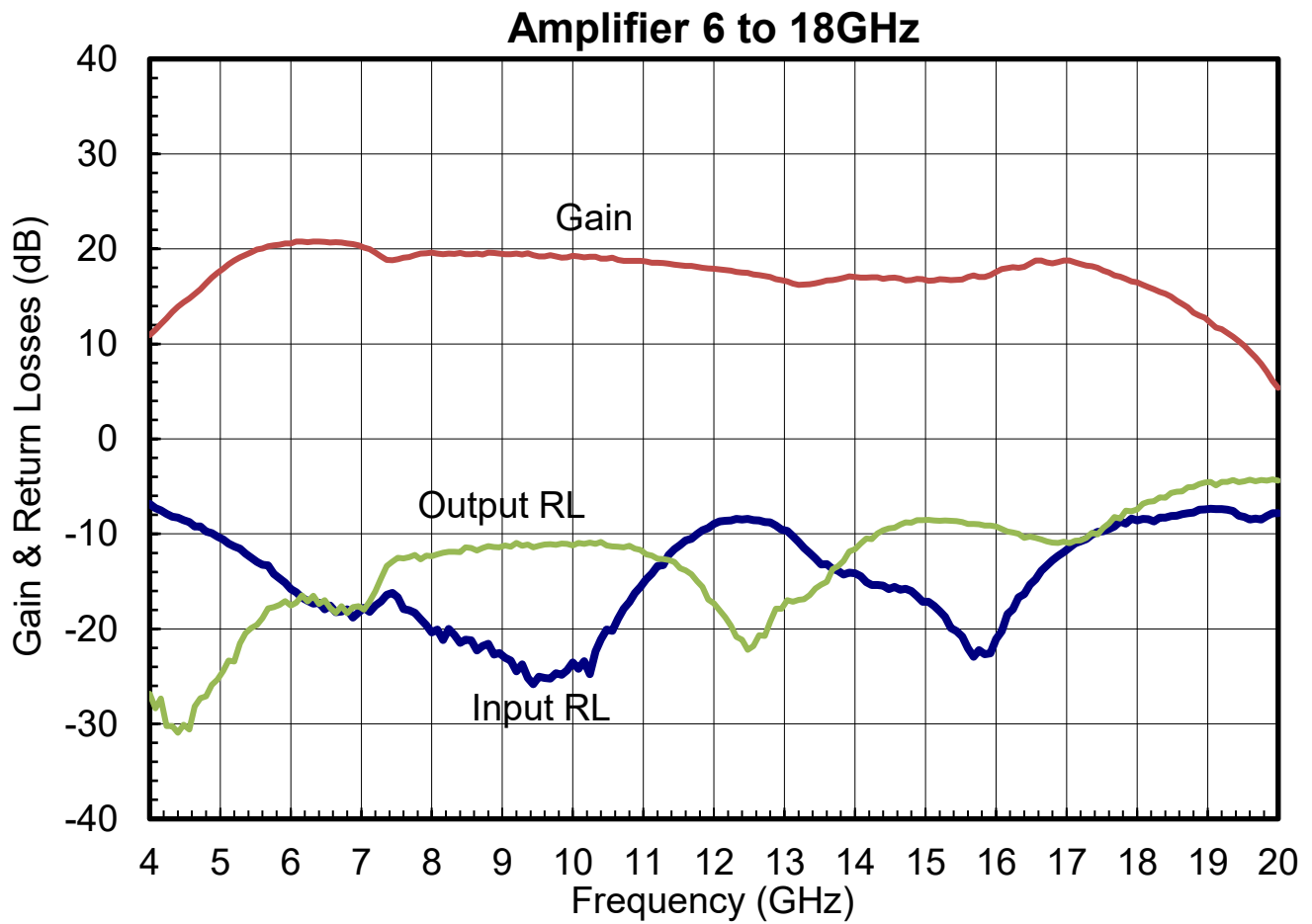
Parameters	Minimum	Typical	Maximum
Frequency		6 – 18GHz	
Small Signal Gain	16	19dB	20dB
Gain Ripple		±1.5	
Input /Output Return Loss	8dB	15dB	
Psat @ Pin = 12dBm		29dBm	
Ids Max		0.75A	
Noise Figure		6dB	9dB
OIP3		31dBm	

*Specifications subject to change without notice

ABSOLUTE MAXIMUM RATING

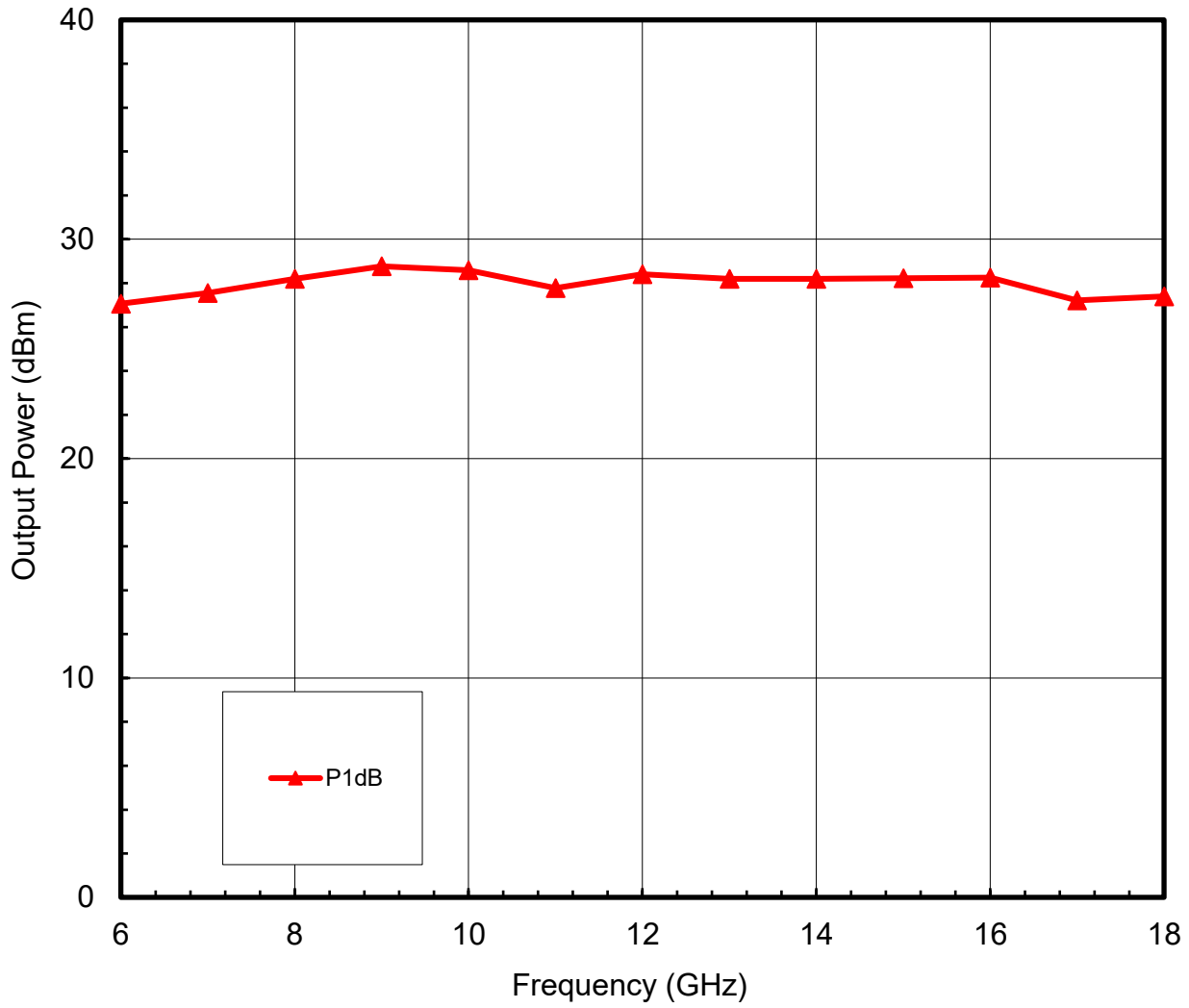
Parameters	Symbol	Rating
Supply Voltage (+6V)	+6V	+7V
RF Power	Pin	26dBm
Ambient Temperature		60°C
Storage Temperature		-40°C to 125°C

SMALL SIGNAL DATA

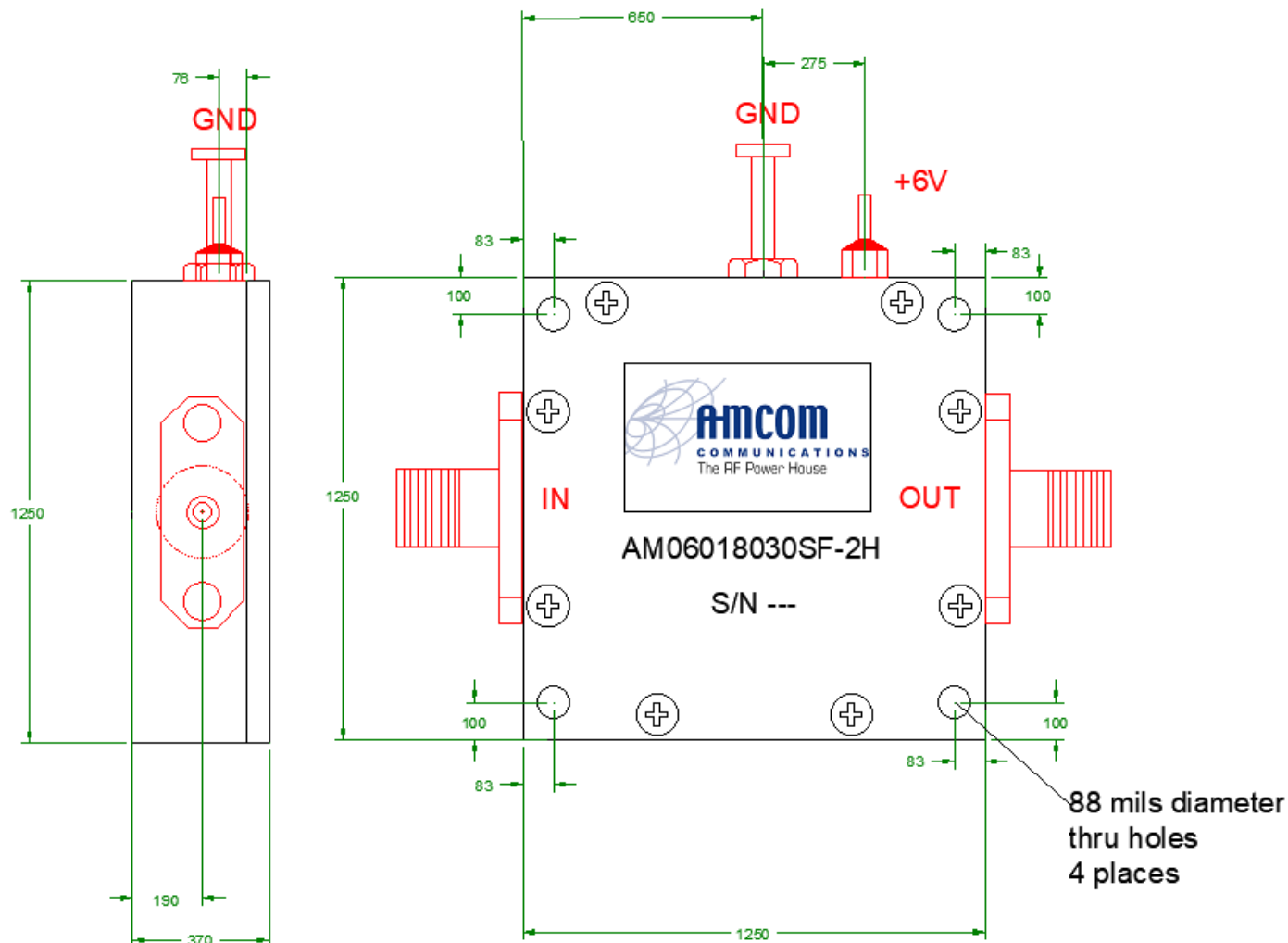


POWER

CW MEASUREMENTS



PACKAGE OUTLINE



DIMENSIONS in mils

Notes:

- 1- All ports have female SMA-type connectors