

DESCRIPTION

AMCOM's AM08011045SF-5H is a broadband GaN Power Amplifier module designed for general purpose applications. It operates from 8 GHz to 11 GHz and typically delivers 30 watts (45dBm) of CW output power and 48dB small signal gain. The amplifier module has 6 screw slots for mounting to a heat sink. This amplifier module is compact and light weight at 6" (L) x 4" (W) x 0.75" (H).



FEATURES

- Wide bandwidth from 8 to 11 GHz
- Psat 45 dBm, Gain 48 dB
- Input / Output matched to 50 Ohms
- TTL control

APPLICATIONS

- Radar
- Fixed microwave backhaul
- Instrumentation and measurements
- Military and Aerospace

TYPICAL PERFORMANCE * (Quiescent bias is +32V, I_{ddq}= 6.5A)

Parameters	Minimum	Typical **	Maximum
Frequency	8-11 GHz	7.5-11.5 GHz	
Small Signal Gain	44 dB	48 dB	
Gain Ripple		± 2 dB	± 3.0 dB
P _{1dB}		42dBm	
P _{5dB}	43 dBm	45 dBm	
Current @ P _{5dB}		9 A	
Noise Figure		5 dB	
IP3		50 dBm	
Input Return Loss		8 dB	
Output Return Loss		8 dB	
Switching Time		5 μS	
TTL RF ON/OFF	<1V for OFF , >2.5 V for ON		

* Notes:

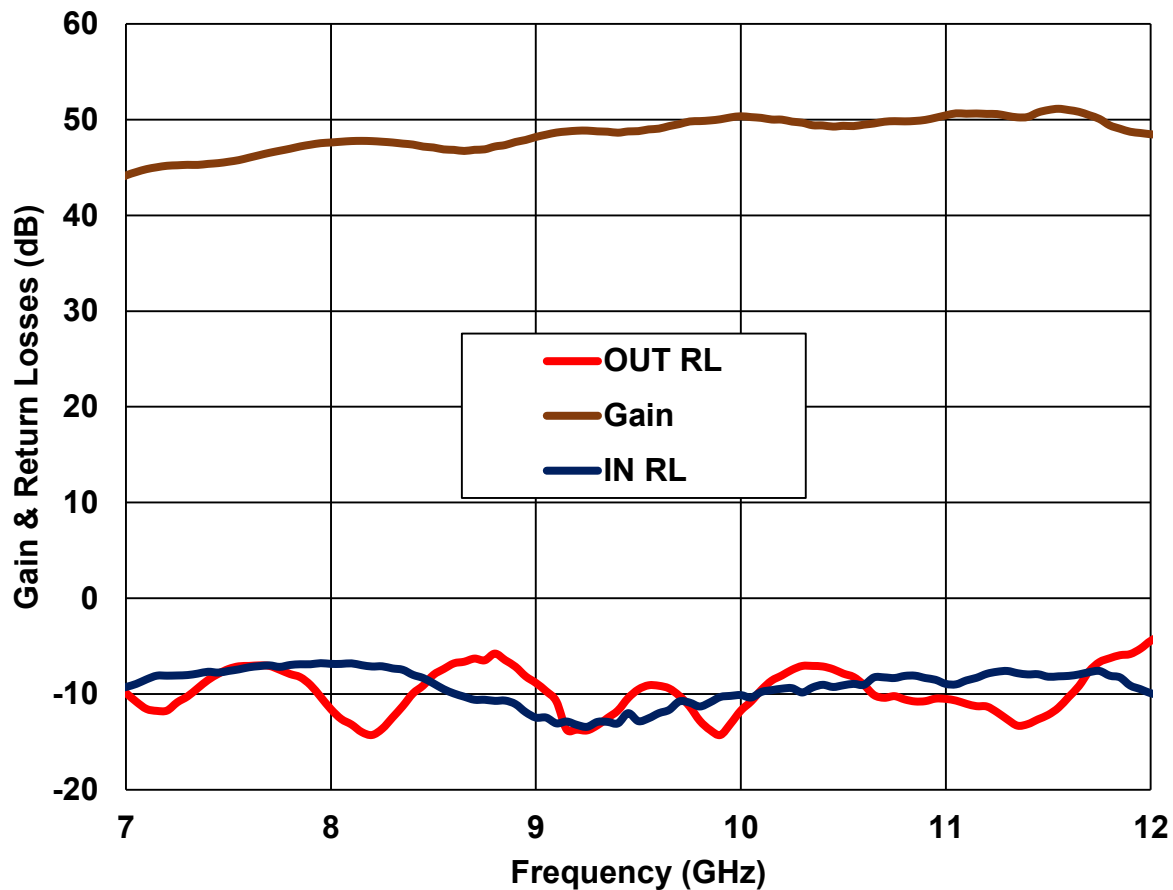
1- Specifications are subject to change without notice.

2- Proper heat sink should be used to remove heat from bottom of package.

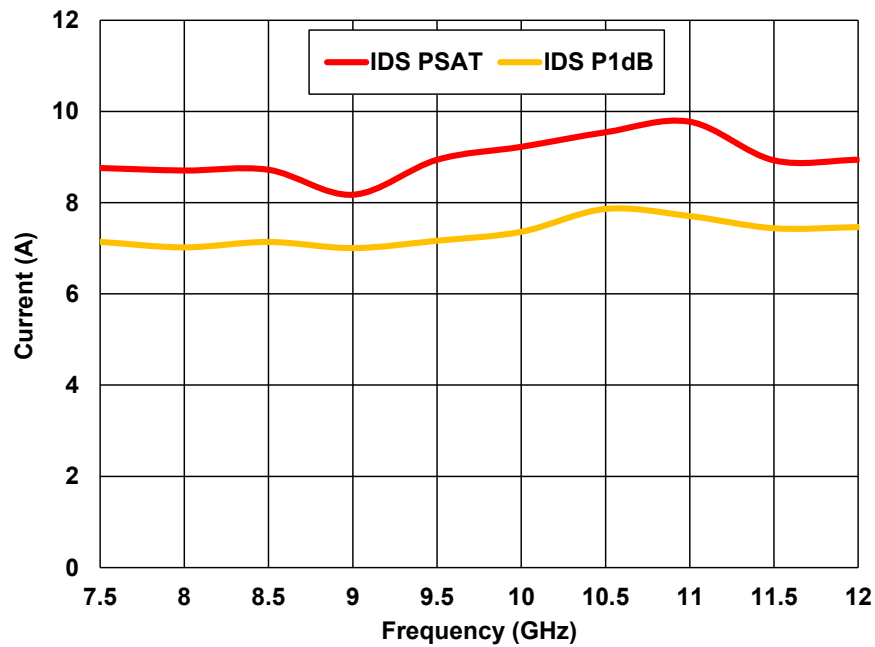
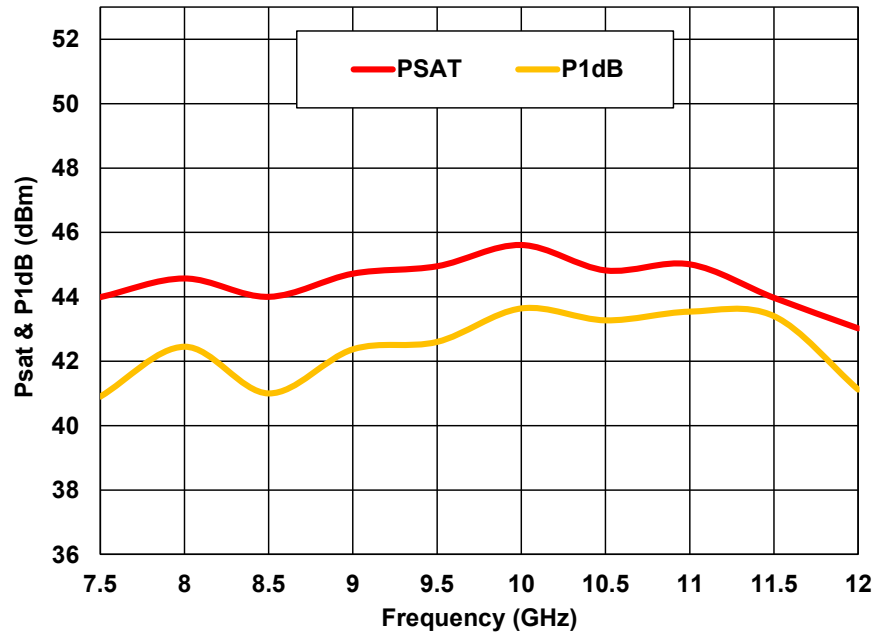
ABSOLUTE MAXIMUM RATING

Parameters	Symbol	Rating
Maximum RF input	RF _{in} Max	+5 dBm
Drain source voltage	V _{dd}	36V
Continuous dissipation at 25°C	P _t	350W
Operating temperature	T _{op}	-40°C to +85°C
Storage temperature	T _{sto}	-55°C to +135°C

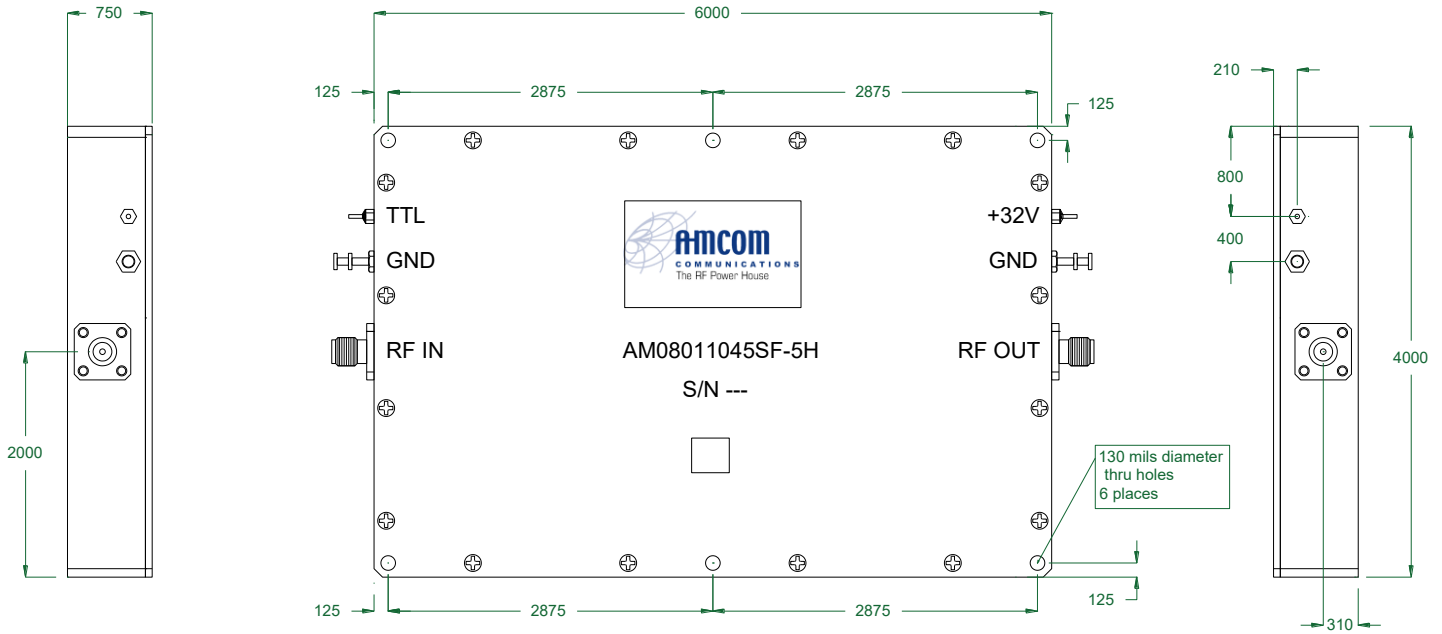
SMALL SIGNAL DATA



POWER DATA



PACKAGE OUTLINE



NOTES:

- 1- Dimensions are in mils.
- 2- Aluminum housing with silver nickel plating.
- 3- Female SMA for RF input and output.
- 4- Use a heat sink to remove heat from the module.

