

DESCRIPTION

AM000551SF-2H is a Broadband Amplifier designed for high power RF applications. It operates from 25 MHz to 500 MHz and typically delivers 51 dBm CW output power and 31 dB small signal gain. The amplifier module has an Aluminum heat-sink attachment.

FEATURES

- Broadband design from 25 to 500 MHz
- High Gain and High Power, $P_{SAT} = 51\text{dBm}$, Gain = 31dB
- +28VDC Single Bias.

APPLICATIONS

- TV, FM Broadcasting
- Broadband Radio
- Test and Measurements

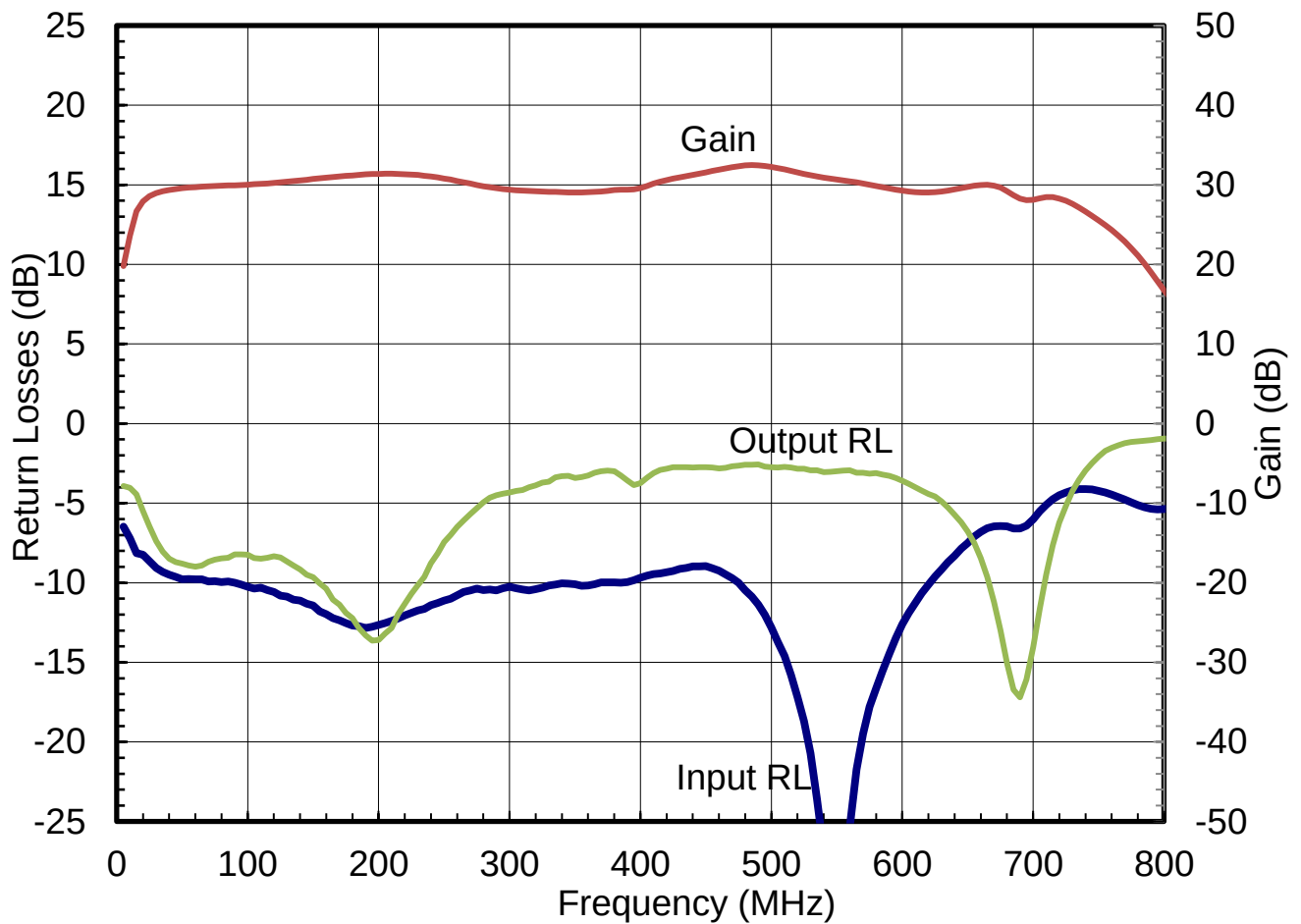
PERFORMANCE* ($V_{ds} = +28\text{V}$, $I_{dq} = 1.6\text{A}$, $T_a = 25^\circ\text{C}$)

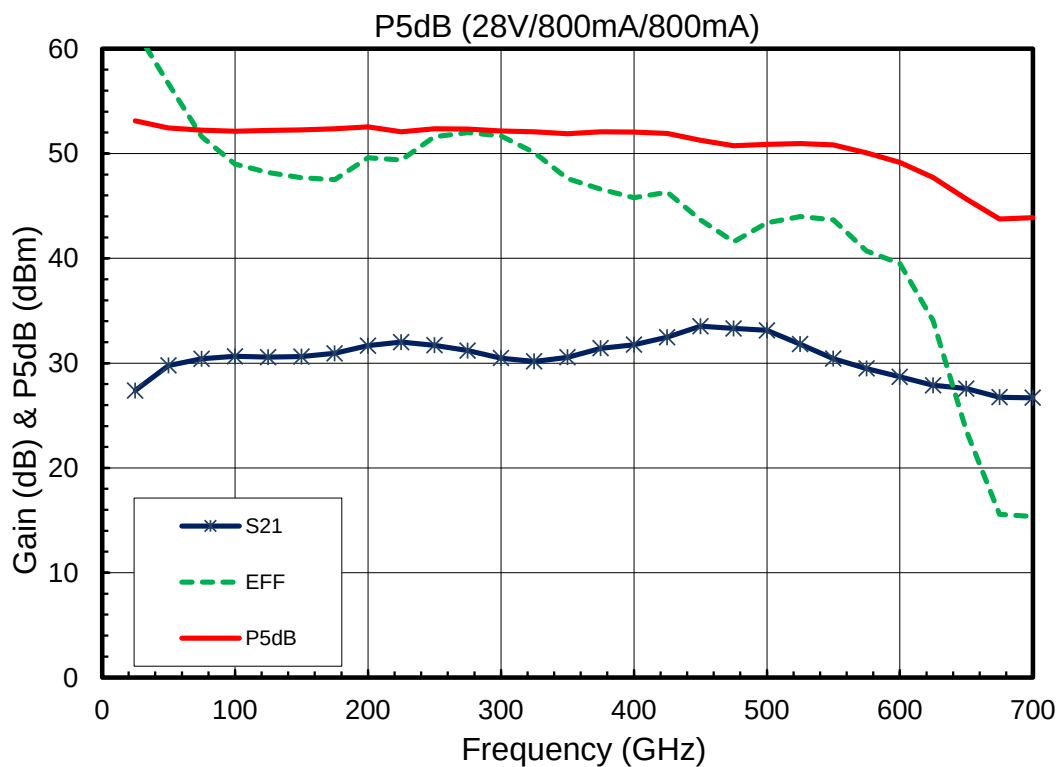
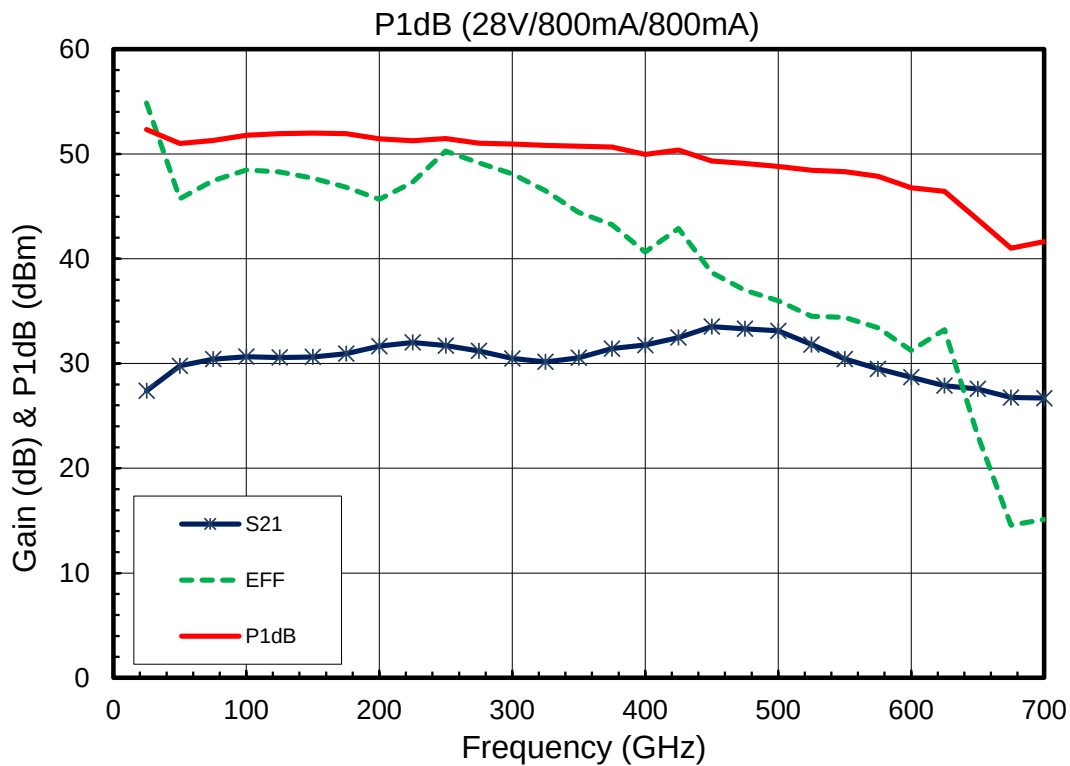
Parameters	Minimum	Typical	Maximum
Frequency		25 – 500 MHz	
Gain (Small signal)	28 dB	31 dB	34 dB
Gain Ripple		± 2 dB	± 4 dB
P_{sat}	49 dBm	51 dBm	
Efficiency	30%	45%	
Input Return Loss		10dB	
Output Return Loss		3dB	
Thermal Resistance (Device Junction to Housing)		0.6 $^\circ\text{C/W}$	

* Specifications subject to change without notice.

ABSOLUTE MAXIMUM RATING

Parameter	Symbol	Rating
Drain to Source voltage	V_{ds}	34 V
Drain source current	I_{dq}	15 A
Continuous dissipation at room temperature	P_t	430 W
Ambient temperature	T_{sink}	85 $^\circ\text{C}$
Storage temperature	T_{sto}	-60 $^\circ\text{C}$ to +150 $^\circ\text{C}$

SMALL SIGNAL DATA ($V_{ds}=+28V$, $I_{dq1}=0.8A$, $I_{dq2}=0.8A$, $T_a=25^{\circ}C$)

POWER DATA ($V_{ds}=+28V$, $I_{dq}=1.6A$, $T_a=25^{\circ}C$)

PACKAGE OUTLINE