



**Transferline Microwave**  
Engineer's RF Partner

## **AMP Series**

# Solid State Power Amplifier



Datasheet

## Product Overview

Transferline Microwave designs and produces customized solutions with RF power amplifiers and RF power amplifier systems. In our product database, you will find a suitable system solution for your application. Unique power combining technology and high power GaN transistors make the amplifiers products more reliable, built-in over temperature, over standing wave and other comprehensive protection functions will further ensure the amplifier reliability requirements.

The self-developed and manufactured chassis RF power amplifier is widely used in EMI/EMC electromagnetic compatibility, broadcast communication, test and measurement, and other RF microwave fields. The product adopts self-developed microwave technology, with the advantages of high gain, high efficiency, high output power, wide working band, and good linearity. The whole machine has perfect self-protection function, in case of abnormal operation such as over-temperature, over-drive, over-reflection, etc., it can enter the protection state in time, and the power amplifier stops working and displays the corresponding alarm information on the LCD.

## Technical Specifications

### Broadband Solid State Power Amplifiers

No.	Model	Key Technical Parameters	
		Frequency Range (GHz)	Power Output@ Psat & Gain & Power Output@ P1dB
1	AMP-4k400M100W	4kHz-400MHz	100W/50dB&70W@P1
2	AMP-4k400M200W	4kHz-400MHz	200W/53dB&150W@P1
3	AMP-10k100M1000W	10kHz-100MHz	1000W/60dB&800W@P1
4	AMP-10k100M3500W		3500W/65.44dB&2500W@P1
5	AMP-10k100M5000W		5000W/67dB&3500W@P1
6	AMP-10k100M10000W		10000W/70dB&8000W@P1
7	AMP-9k225M3500W	9kHz-225MHz	3500W/65.44dB&2500W@P1

8	AMP-9k225M5000W		5000W/67dB&3500W@P1
9	AMP-80M1G100W	80MHz-1GHz	100W/50dB&80W@P1
10	AMP-80M1G200W		200W/53dB&150W@P1
11	AMP-80M1G300W		300W/54.77dB&200W@P1
12	AMP-80M1G500W		500W/57dB&300W@P1
13	AMP-80M1G1000W		1000W/60dB&600W@P1
14	AMP-80M1G2000W		2000W/63dB&1200W@P1
15	AMP-1.2G1.4G800W	1.2-1.4GHz	800W/59dB&600W@P1
16	AMP-1.2G1.4G1200W		1200W/60.79dB&1000W@P1
17	AMP-2.7G3.1G500W	2.7G-3.1GHz	500W/57dB&350W@P1
18	AMP-2.7G3.1G800W		800W/59dB&600W@P1
19	AMP-1G6G30W	1GHz-6GHz	30W/44.77dB&25W@P1
20	AMP-1G6G50W		60W/47dB&40W@P1
21	AMP-1G6G100W		100W/50dB&70W@P1
22	AMP-1G6G200W		200W/53dB&150W@P1
23	AMP-1G6G400W		400W/53dB&300W@P1
24	AMP-1G6G600W		600W/58dB&500W@P1
25	AMP-1G6G1000W		1000W/60dB&800W@P1
26	AMP-6G18G20W	6GHz-18GHz	20W/43dB&10W@P1
27	AMP-6G18G50W		50W/47dB&20W@P1
28	AMP-6G18G100W		100W/50dB&50W@P1
29	AMP-6G18G200W		200W/53dB&100W@P1
30	AMP-6G18G300W		320W/54.77dB&150W@P1
31	AMP-6G18G500W		500W/57dB&200W@P1

32	AMP-18G26.5G20W	18GHz-26.5GHz	20W/43dB&5W@P1
33	AMP-18G26.5G50W		50W/47dB&15W@P1
34	AMP-18G26.5G100W		100W/50dB&30W@P1
35	AMP-26.5G40G20W	26.5GHz-40GHz	20W/43dB&5W@P1
36	AMP-26.5G40G40W		40W/46dB&8W@P1
37	AMP-26.5G40G100W		100W/50dB&20W@P1

Notes: The specifications are based on the product datasheet. If there is any change, please understand we are unable to notify you in time.

## Solid State CW Power Amplifiers

No.	Model	Key Technical Parameters	
		Frequency Range (GHz)	Power Output@ Psat (W/dBm)
1	AMP-1.6M30M120W	1.6MHz-30MHz	100W/50dBm
2	AMP-1.6M30M200W		200W/53dBm
3	AMP-1.6M30M300W		300W/54.7dBm
4	AMP-1.6M30M500W		500W/57dBm
5	AMP-1.6M30M1000W		1000W/60dBm
6	AMP-30M512M100W	30MHz-512MHz	100W/50dBm
7	AMP-30M512M200W		200W/53dBm
8	AMP-30M512M300W		300W/54.7dBm
9	AMP-30M512M500W		500W/57dBm
10	AMP-0.7G1G100W	698MHz-960MHz	100W/50dBm
11	AMP-0.7G1G200W		200W/53dBm
12	AMP-0.7G1G300W		300W/54.7dBm
13	AMP-0.7G1G500W		500W/57dBm

14	AMP-0.7G1G1000W		1000W/57dBm
15	AMP-1.4G1.9G100W	1400MHz-1900MHz	100W/50dBm
16	AMP-1.4G1.9G200W		200W/53dBm
17	AMP-1.4G1.9G300W		300W/54.7dBm
18	AMP-1.4G1.9G500W		500W/57dBm
19	AMP-1.8G2.2G100W		1805MHz-2170MHz
20	AMP-1.8G2.2G200W	200W/53dBm	
21	AMP-1.8G2.2G300W	300W/54.7dBm	
22	AMP-1.8G2.2G500W	500W/57dBm	
23	AMP-1.8G2.2G1000W	1000W/57dBm	
24	AMP-2.3G2.7G100W	2.3GHz-2.7GHz	100W/50dBm
25	AMP-2.3G2.7G200W		200W/53dBm
26	AMP-2.3G2.7G300W		300W/54.7dBm
27	AMP-2.3G2.7G500W		500W/57dBm
28	AMP-2.3G2.7G1000W		1000W/60dBm
29	AMP-3.4G3.8G50W	3.4GHz-3.8GHz	20W/43dBm
30	AMP-3.4G3.8G100W		100W/50dBm
31	AMP-3.4G3.8G200W		200W/53dBm
32	AMP-3.4G3.8G300W		300W/54.7dBm
33	AMP-3.4G3.8G500W		500W/57dBm
34	AMP-3.4G3.8G750W		750W/58.5dBm
35	AMP-4.4G5G50W	4.4GHz-5GHz	50W/50dBm
36	AMP-4.4G5G100W		100W/53dBm
37	AMP-4.4G5G200W	4.4GHz-5GHz	200W/53dBm

38	AMP-4.4G5G300W		300W/54.7dBm
39	AMP-4.4G5G500W		500W/57dBm
40	AMP-5.1G5.9G50W	5.1GHz-5.9GHz	50W/47dBm
41	AMP-5.1G5.9G100W		100W/50dBm
42	AMP-5.1G5.9G200W		200W/53dBm
43	AMP-5.1G5.9G300W		300W/54.7dBm
44	AMP-5.1G5.9G200W		500W/57dBm
45	AMP-5.8G6.5G100W		5.8GHz-6.5GHz
46	AMP-5.8G6.5G200W	200W/53dBm	
47	AMP-5.8G6.5G300W	300W/54.7dBm	
48	AMP-5.8G6.5G400W	500W/57dBm	

## EMC Broadband Solid State Pulse Power Amplifiers

No.	Model	Key Technical Parameters	
		Frequency Range (GHz)	Power Output@ Psat (W/dBm)
1	AMPP-1G2G8000W	1GHz-2GHz ( Duty Cycle: 1%-4% )	8000W/69dB
2	AMPP-1G2G12000W	1GHz-2GHz ( Duty Cycle: 1%-4% )	12000W/70dB
3	AMPP-1G2G15000W	1GHz-2GHz ( Duty Cycle: 1%-4% )	15000W/71dB
4	AMPP-2G4G12000W	2GHz-4GHz ( Duty Cycle: 1%-4% )	12000W/70dB
5	AMPP-2G4G15000W	2GHz-4GHz ( Duty Cycle: 1%-4% )	15000W/71dB
6	AMPP-4G8G12000W	4GHz-8GHz ( Duty Cycle: 1%-4% )	12000W/71dB
7	AMPP-8G18G12000W	4GHz-8GHz ( Duty Cycle: 1%-4% )	12000W/71dB

## EMC Broadband TWT CW Power Amplifiers

No.	Model	Key Technical Parameters	
		Frequency Range (GHz)	Power Output@ Psat (W/dBm)
1	AMPT-6G18G200W	6GHz-18GHz	200W/53dB
2	AMPT-18G26.5G50W	18GHz-26.5GHz	50W/47dB
3	AMPT-26.5G40G40W	26.5GHz-40GHz	40W/46dB

Notes: The specifications are based on the product datasheet. If there is any change, please understand we are unable to notify you in time.

### RF Power Amplifier Accessories

RF power amplifier accessories such as the Directional Couplers, RF Power Attenuators, and RF Power Terminations will be used frequently in the testing. If the customers need these accessories, we will provide the customized configuration service for them.