



Power Matrix



Power Amplifier Catalog 2020

Chengdu Power Matrix Microwave Technology Co., Ltd.

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Power Matrix Tech, the excellent provider
of power amplifier solutions

Company Brief

Chengdu Power Matrix Microwave Technology Co., Ltd. was established in 2001. The company headquarters is located in Chengdu, China. We are a high-tech enterprise specializing in the R & D, manufacturing, sales and service of high quality RF/Microwave components and sub-systems.

With the help of nearly 20 years of precipitation and development, the company has grown a R&D team with profound theoretical foundation and rich engineering experience. We've set up two research centers, which have enabled the company to obtain dozens of invention patents and software copyrights.

We are committed to providing customers with microwave and MMW front-end multi-function chip design solutions and services. We can supply ultra-small microwave and MMW multi-function module solutions and services based on silicon-based technology and micro-coaxial technology in the field of radar and radio communication. And We can provide solutions and services for ultra-miniaturized, serialized general-purpose devices and components based on ceramic process, LTCC process, etc.

Now the mature products that the company can provide are RF/MW switches, amplifiers, power splitters, frequency multipliers, phase shifters, attenuators, voltage-controlled oscillators, phase-locked frequency synthesizers, general communication transceiver components, radar T/R components, filter amplification components, special microwave components and so on.

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L BAND MODULE

Part Number	Freq (GHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	Working Conditions	Module Size (mm)
<u>PPA-0100-0200-50</u>	1.0-2.0	50	30	42	±2	28	Continuous Wave	120×80×12
<u>PPA-0100-0200-51</u>	1.0-2.0	51	30	40	±2	32	Continuous Wave	120×80×12

S BAND MODULE

Part Number	Freq (GHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	Working Conditions	Module Size (mm)
<u>PPA-0200-0300-50</u>	2.0-3.0	50	28	40	±1.5	32	Continuous Wave	120×80×12

C BAND MODULE

Part Number	Freq (GHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	Working Conditions	Module Size (mm)
<u>PPA-0400-0500-49</u>	4.0-5.0	49	30	40	±1.5	28	Continuous Wave	80×60×12
<u>PPA-0500-0600-39</u>	5.0-6.0	39	30	44	±1.5	28	Continuous Wave	60×60×12
<u>PPA-0500-0600-49</u>	5.0-6.0	49	28	40	±1.5	28	Continuous Wave	80×60×12
<u>PPA-0570-0630-49</u>	5.7-6.3	49	28	41	±1	28	Continuous Wave	80×60×12
<u>PPA-0600-0750-43</u>	6.0-7.5	43	28	39	±1.5	28	Continuous Wave	60×60×12
<u>PPA-0640-0720-50</u>	6.4-7.2	50	28	40	±1	28	Continuous Wave	80×60×12

X & Ku BAND MODULE

Part Number	Freq (GHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	Working Conditions	Module Size (mm)
<u>PPA-0800-0850-48</u>	8.0-8.5	48	25	40	±1	28	Continuous Wave	80×60×12
<u>PPA-0850-0960-47</u>	8.5-9.6	47	25	40	±1	28	Continuous Wave	80×60×12
<u>PPA-0900-1000-47</u>	9.0-10.0	47	25	40	±1	28	Continuous Wave	80×60×12
<u>PPA-0950-1050-48</u>	9.5-10.5	48	20	40	±1	28	Continuous Wave	80×60×12

ULTRA-WIDEBAND POWER AMPLIFIER MODULE

Part Number	Freq (GHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	Working Conditions	Module Size (mm)
<u>PPA-0003-0030-50</u>	0.03-0.3	50	35	40	±2.5	28	Continuous Wave	100×60×12
<u>PPA-0030-0080-50</u>	0.3-0.8	50	28	40	±1.5	28	Continuous Wave	100×60×12
<u>PPA-0035-0200-40</u>	0.35-2.0	40	22	42	±2.5	28	Continuous Wave	120×60×12
<u>PPA-0035-0200-43</u>	0.35-2.0	43	22	44	±2.5	28	Continuous Wave	100×60×12
<u>PPA-0035-0200-47</u>	0.35-2.0	47	30	38	±2.5	28	Continuous Wave	120×60×12
<u>PPA-0030-0200-50</u>	0.3-2.0	50	28	40	±2.5	28	Continuous Wave	100×60×12
<u>PPA-0070-0600-44</u>	0.7-6.0	44	18	40	±2.5	28	Continuous Wave	100×60×12
<u>PPA-0080-0200-40</u>	0.8-2.0	40	35	42	±1.5	28	Continuous Wave	100×60×12
<u>PPA-0080-0200-43</u>	0.8-2.0	43	35	38	±1.5	28	Continuous Wave	120×60×12
<u>PPA-0080-0200-47</u>	0.8-2.0	47	35	39	±1.5	28	Continuous Wave	100×60×12
<u>PPA-0080-0200-50</u>	0.8-2.0	50	28	38	±1.5	32	Continuous Wave	120×60×12
<u>PPA-0080-0250-43</u>	0.8-2.5	43	35	41	±1.5	32	Continuous Wave	120×60×12
<u>PPA-0080-0420-40</u>	0.8-4.2	40	22	42	±2	28	Continuous Wave	100×60×12
<u>PPA-0080-0420-45</u>	0.8-4.2	45	24	38	±2	28	Continuous Wave	100×60×12
<u>PPA-0080-0420-47</u>	0.8-4.2	47	22	44	±2	28	Continuous Wave	100×60×12
<u>PPA-0080-0420-49</u>	0.8-4.2	49	22	40	±2	28	Continuous Wave	100×60×12
<u>PPA-0100-0200-50-1</u>	1.0-2.0	50	35	40	±1.5	28	Continuous Wave	120×60×12
<u>PPA-0200-0400-47</u>	2.0-4.0	47	22	42	±1.5	28	Continuous Wave	100×60×12
<u>PPA-0200-0400-50</u>	2.0-4.0	50	22	40	±1.5	32	Continuous Wave	100×60×12
<u>PPA-0200-0600-43</u>	2-6.0	43	30	41	±2	28	Continuous Wave	100×60×12

ULTRA-WIDEBAND POWER AMPLIFIER MODULE

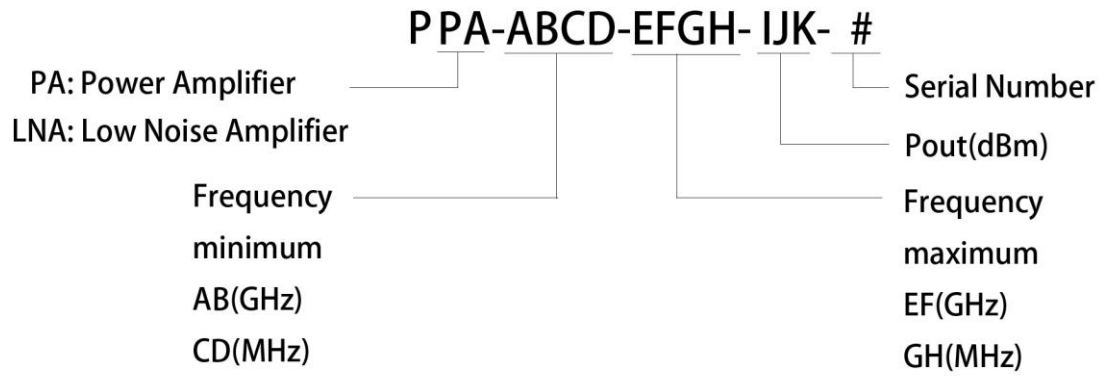
Part Number	Freq (GHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	Working Conditions	Module Size (mm)
<u>PPA-0200-0620-46</u>	2-6.2	46	20	38	±2.5	28	Continuous Wave	100×60×12
<u>PPA-0200-0620-49</u>	2.0-6.2	49	20	40	±2.5	28	Continuous Wave	100×60×12
<u>PPA-0400-0800-45</u>	4.0-8.0	45	18	42	±2	28	Continuous Wave	100×60×12
<u>PPA-0400-0800-48</u>	4.0-8.0	48	18	40	±2	28	Continuous Wave	100×60×12
<u>PPA-0600-1800-41</u>	6.0-18.0	41	16	38	±2.5	28	Continuous Wave	80×60×12
<u>PPA-0200-1800-40</u>	2.0-18.0	40	15	40	±3	28	Continuous Wave	80×60×12
<u>PPA-1800-4000-40</u>	18.0-40.0	40	12	40	±3	20	Continuous Wave	80×60×12
<u>PPA-0800-1200-42</u>	8.0-12.0	42	30	41	±1.5	28	Continuous Wave	80×60×12
<u>PPA-2700-3200-43</u>	27.0-32.0	43	12	40	±1.5	20	Continuous Wave	80×60×12
<u>PPA-3100-3700-40</u>	31.0-37.0	40	22	40	±1.5	24	Continuous Wave	80×60×12

LOW NOISE AMPLIFIER MODULE

Part Number	Freq (GHz)	Noise Figure (dB)	P-1 (dBm)	Gain (dB)	Gain Flatness (dB)	Power Supply (V)	VSWR	Current (mA)	Module Size (mm)
<u>PLNA-0020-0200-13</u>	0.2-2.0	1.8	13	40	±2.5	5	2	150	40×40×10
<u>PLNA-0200-0600-15</u>	2.0-6.0	1.4	15	41	±1.5	5	2.5	120	40×40×10
<u>PLNA-0200-1800-12</u>	2.0-18.0	3	12	40	±2.5	5	2	180	60×40×10
<u>PLNA-0600-1800-15</u>	6.0-18.0	2	15	42	±2	5	2	160	60×40×10

Model Number Codification

Model Number





Power Matrix

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