



Over A Century's Experience In Every Watt

# RF Power Amplifiers / RF Generators

4 kHz to 40 GHz | 1 to 100,000 Watts | Solid-State Technology



RF ENERGY | MEDICAL | COMMUNICATIONS | MILITARY

RF DESIGN | HIGH VOLUME MANUFACTURING



[www.eliterfllc.com](http://www.eliterfllc.com)



## RF Amplifier Modules from 4 KHz to 40 GHz

Part Number	Frequency Min	Frequency Max	Psat (Watts)
MA9K100M565648	0.009 MHz	100 MHz	400
MA9K400M535348	0.009 MHz	400 MHz	200
MB.026.0G404850	20 MHz	6000 MHz	10
MB.026.0G434850	20 MHz	6000 MHz	20
MB030512M534850	30 MHz	512 MHz	200
MB075140M521848	75 MHz	140 MHz	200
MB.502.5G534850	500 MHz	2500 MHz	200
MB.703.0G515028	700 MHz	3000 MHz	120
MB2.42.5G574850	2400 MHz	2500 MHz	500
MB1.06.0G505032	1000 MHz	6000 MHz	100
MB2.04.0G525228	2000 MHz	4000 MHz	170
MB2.06.0G505030	2000 MHz	6000 MHz	100
MB2.08.0G494928	2000 MHz	8000 MHz	80
MB2.0018G434822	2000 MHz	18000 MHz	20
MB6.0012G474724	6000 MHz	12000 MHz	50
MB6.0018G434820	6000 MHz	18000 MHz	20
MB6.0018G505028	6000 MHz	18000 MHz	100
MP8.0011G534828	8000 MHz	11000 MHz	200
MB013015G474728	13500 MHz	15500 MHz	50
MB018026G465022	18000 MHz	26500 MHz	35
MB026040G505022	26500 MHz	40000 MHz	100
MB033037G474722	33000 MHz	37000 MHz	50

Part Numbers beginning with MA/MB/MP represents RF amplifier modules requiring external DC Voltage and cooling. All these modules can be built with add-on like air-cooled/water-cooled heatsink, D-sub connector, TTL trigger or custom configurations based on customer requests. Any modules can be built in a 19-inch rack system equipped with heatsink and power supply. Rack system can be identified by part numbers starting with AA/AB/AP (w/o display) or DA/DB/DP (w/display).

## Small Form Factor RF Amplifier Modules (4 in x 3 in x 1.5 in)

Part Number	Frequency Min	Frequency Max	Psat (Watts)
MMB.502.7G474850	500 MHz	2700 MHz	50
MMB.502.7G504850	500 MHz	2700 MHz	100

## High Power Custom Design

Frequency Min	Frequency Max	Mode	Psat/Peak (Watts)
20 MHz	18000 MHz	CW	20
65 MHz	69 MHz	CW	6000
500 MHz	2500 MHz	CW	400
223 MHz	233 MHz	Pulsed	3000 (30% duty cycle)
2700 MHz	3100 MHz	Pulsed	22000 (10% duty cycle)
9900 MHz	10400 MHz	CW	1200

## RF Amplifier Systems for Military, Communications, EMC/EMI and High-Power Testing

Part Number	Frequency Min	Frequency Max	Psat (Watts)
DA4K400M5252AC	0.004 MHz	400 MHz	150
DA9K100M6060AC	0.009 MHz	100 MHz	1000
DA9K100M6565AC	0.009 MHz	100 MHz	3000
DA9K1000M5353AC	0.009 MHz	1000 MHz	200
DB.021.0G5757AC	20 MHz	1000 MHz	500
DA.081.0G5757AC	80 MHz	1000 MHz	500
DA.081.0G6565AC	80 MHz	1000 MHz	3000
DB.502.0G5757AC	500 MHz	2000 MHz	500
DB.706.0G5353AC	700 MHz	6000 MHz	200
DB.804.2G5050AC	800 MHz	4200 MHz	100
DA1.06.0G5757AC	1000 MHz	6000 MHz	500
DB2.06.0G5757AC	2000 MHz	6000 MHz	500
DB2.0018G5050AC	2000 MHz	18000 MHz	100
DB2.08.0G5656AC	2000 MHz	8000 MHz	400
DA6.0018G5353AC	6000 MHz	18000 MHz	200
DA6.0018G5757AC	6000 MHz	18000 MHz	500
DB018027G4747AC	18000 MHz	26500 MHz	50
DB018027G5353AC	18000 MHz	26500 MHz	200
DB026040G4747AC	26500 MHz	40000 MHz	50
DB026040G5353AC	26500 MHz	40000 MHz	200

The above-mentioned solid-state RF Amplifier Systems comes with a built-in protection against overheat, voltage and VSWR. The system has a touch screen front panel display to set the frequency, power levels and other functions. Different control options can be designed to accommodate customer's requests.

### Solid-State Microwave Generators

Solid-State Microwave Generator System are best alternative to unreliable tube-based Magnetron System. This solid-state technology has been widely accepted in Nuclear Fusion, Lab Grown Diamonds, Directed Energy, Plasma Generation, Industrial Drying, Biowaste Disposal, Research and several RF Energy applications.

Part Number	Frequency Min	Frequency Max	Psat (Watts)
HPG2.45GXXKW	2400 MHz	2500 MHz	150W up to 100kW
HPG915MXXKW	902 MHz	928 MHz	150W up to 100kW



## Manufacturer of Solid-State RF Amplifiers and Microwave Generators for Defense, Medical, Aerospace, Communications, EMC Test, Plasma Generation, Commercial and Research Applications

Elite RF is a fast-growing company in the field of solid-state RF and microwave power amplification technology. We leverage both in-house RF engineering talent and experience along with our production capabilities to design and manufacture RF amplifiers up to 40GHz frequency and 100kW power to meet the diverse needs of our clients.

Established in 2014 by former Motorola engineering leaders, Elite RF has set a very high standard in designing and manufacturing solid-state RF power amplifiers and high-power microwave generators for off the shelf availability and custom design solutions. With our in-house engineering team and a quality controlled 22,000-square foot manufacturing facility, our core strength lies in our commitment to collaborative engineering, robust designs, high manufacturing quality, and on-time delivery. We are dedicated to boosting your operational performance, aiming to provide you with a significant competitive advantage in the rapidly evolving RF landscape.

Contact us at [847-592-6350](tel:847-592-6350) or [sales@eliterf.com](mailto:sales@eliterf.com) and our technical sales team will be glad to assist you with your RF project.

### CUSTOM RF CAPABILITIES

- Power Amplifiers design
- Wideband RF amplifiers
- High power RF Amplifiers up to 100 KW
- RF / Wireless System Design
- Mechanical CAD Design
- PCB Layout
- Embedded Firmware
- Analog & Digital Design
- Prototype Design
- High Volume Production
- Pre-Certification Testing
- FCC / CE Certification
- Frequencies from 4 kHz to 40 GHz
- Transmitters, Receivers, Transceivers, Repeaters
- Build-to-Print

### CAD TOOLS INCLUDE:

- Linear and non-linear circuit simulation (ADS/MW Office)
- 2.5D electromagnetic simulation (ADS/MW Office)
- Full 3D electromagnetic simulation (HFSS)
- PCB design and layout (Mentor Graphics/Altium)
- Mechanical design and layout (SolidWorks/AutoCAD)
- Solid modeling (SolidWorks)
- Thermal analysis (SolidWorks)
- Circuit modeling and analysis (ADS/SPICE)
- Reliability analysis and MTBF Prediction (RELEX)
- LabView



SCAN FOR MORE INFORMATION



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