



ELITE RF

Over A Century's Experience In Every Watt

RF Power Amplifiers / RF Generators

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



RF ENERGY | MEDICAL | COMMUNICATIONS | MILITARY



www.eliterfllc.com



Gold Series - Models upto 18GHz

Part Number	Frequency Min	Frequency Max	Psat (Watts)
MB030512M504850	30 MHz	512 MHz	100
MB030512M534850	30 MHz	512 MHz	200
MB.026.0G434350	20 MHz	6000 MHz	20
MB.502.5G504050	500 MHz	2500 MHz	100
MB.502.5G534850	500 MHz	2500 MHz	200
MB2.42.5G544850	2400 MHz	2500 MHz	250
MB2.42.5G574850	2400 MHz	2500 MHz	500
MB1.06.0G454824	1000 MHz	6000 MHz	35
MB2.06.0G444828	2000 MHz	6000 MHz	25
MB2.0018G434822	2000 MHz	18000 MHz	20
MB6.0012G444820	6000 MHz	12000 MHz	25
MB6.0018G434820	6000 MHz	18000 MHz	20
MP8.011G534828	8000 MHz	11000 MHz	200

All MB/MP series RF amplifier modules mentioned above require DC Voltage. Any model can be mounted on an air cooled/ water cooled heatsink for thermal dissipation. All modules can be built in to 19-inch rack system equipped with heatsinks and are designed to function within a voltage range of 100-240 VAC. Amplifier rack systems can be identified by part numbers starting with AB/AP/AA.

New Released Amplifiers up to 40GHz

Part Number	Frequency Min	Frequency Max	Psat (Watts)
MB1.06.0G474728	1000 MHz	6000 MHz	50
MB1.06.0G505032	1000 MHz	6000 MHz	100
AB1.5M18G4747AC	1.5 MHz	18000 MHz	50
MB2.06.0G505030	2000 MHz	6000 MHz	120
AB2.06.0G5353AC	2000 MHz	6000 MHz	200
MB2.08.0G494928	2000 MHz	8000 MHz	80
MB6.0018G475228	6000 MHz	18000 MHz	50
MB6.0018G505028	6000 MHz	18000 MHz	100
MB026040G505022	26500 MHz	40000 MHz	100
MB026040G465524	26500 MHz	40000 MHz	35
MB033037G474722	33000 MHz	37000 MHz	50
MB.703.0G515028	700 MHz	3000 MHz	120
MB2.04.0G525228	2000 MHz	4000 MHz	170
MB018026G404424	18000 MHz	26500 MHz	10
MB013015G474728	13500 MHz	15500 MHz	50
MB014015G474728	14400 MHz	15400 MHz	50

All MB/MP series RF amplifier modules mentioned above require DC Voltage. Any model can be mounted on an air cooled/ water cooled heatsink for thermal dissipation. All modules can be built in to 19-inch rack system equipped with heatsinks and are designed to function within a voltage range of 100-240 VAC. Amplifier rack systems can be identified by part numbers starting with AB/AP/AA.

New Released Amplifier Systems for EMC/EMI and High-Power Testing

Part Number	Frequency Min	Frequency Max	Psat (Watts)
AB1.06.0G5757AC	1000 MHz	6000 MHz	500
AB2.0018G5050AC	2000 MHz	18000 MHz	100
AB6.0018G5353AC	6000 MHz	18000 MHz	200
AA9K400M5353AC	9KHz	400MHz	200
MA9K400M535348	9KHz	400MHz	200
AB.021.0G5757AC	20MHz	1000MHz	500
AB026040G4747AC	26500 MHz	40000 MHz	50
AB026040G5353AC	26500 MHz	40000 MHz	200
AB2.06.0G5353AC	2000 MHz	6000 MHz	200
AB2.06.0G5757AC	2000 MHz	6000 MHz	500
AB018027G4747AC	18000 MHz	26500 MHz	50
AB.706.0G5353AC	700 MHz	6000 MHz	200
MB018026G434420	18000 MHz	26500 MHz	20
MB2.06.0G474728	2000 MHz	6000 MHz	50
AB6.0018G5050AC	6000 MHz	18000 MHz	100
MB2.0018G444428	2000 MHz	18000 MHz	25

MA/MB series RF amplifier modules mentioned above require DC Voltage. Any model can be mounted on an air cooled/ water cooled heatsink for thermal dissipation. All modules can be built into RF systems (AB series) with required controls and add-ons, and vice versa.

Solid-State Microwave Generators

Solid State Microwave Generator System for Nuclear Fusion, Lab Grown Diamonds, Directed Energy, Plasma Generation, Industrial Drying, Biowaste Disposal, Research Applications (New Reliable Technology to replace Magnetrons globally)

Part Number	Frequency Min	Frequency Max	Microwave Power (Watts)
HPG2.453KW	2400	2500	3000
HPG2.456KW	2400	2500	6000
HPG2.4512KW	2400	2500	12000
HPG2.45XXKW	2400	2500	<100kW
HPG915XXKW	902	928	<100kW

All HPG systems mentioned above have internal signal generators and requires AC voltage input and water cooling .



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.



SCAN FOR MORE INFORMATION

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

IN-HOUSE EXPERTISE

- 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
- Production Support
- Pre-Certification Testing
- FCC / CE Certification
- Frequencies from 9 kHz to 40 GHz
- RF Power levels from 1 watt to 100 KW
- 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



Elite RF LLC, 1700 Tower Dr, Hanover Park, IL 60133 USA

Email: sales@eliterf.com

Phone: 847-592-6350

www.eliterfllc.com