



# RF Power Amplifiers/Modules RF High Power Systems RF High Power Generators

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



RF ENERGY | MEDICAL | COMMUNICATIONS | MILITARY  
AEROSPACE | COMMERCIAL | RESEARCH



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



## RF Amplifier Modules from 1 MHz to 40 GHz



| Part Number     | Frequency Min | Frequency Max | Psat (Watts) |
|-----------------|---------------|---------------|--------------|
| MB.026.0G434850 | 20 MHz        | 6000 MHz      | 20           |
| MB030512M534850 | 30 MHz        | 512 MHz       | 200          |
| MB075140M521848 | 75 MHz        | 140 MHz       | 200          |
| MB3.13.6G504830 | 3100 MHz      | 3600 MHz      | 100          |
| MB.502.5G504850 | 500 MHz       | 2500 MHz      | 100          |
| MB.502.5G534850 | 500 MHz       | 2500 MHz      | 200          |
| MB1.06.0G464828 | 1000 MHz      | 6000 MHz      | 40           |
| MB2.06.0G444828 | 2000 MHz      | 6000 MHz      | 25           |
| MB2.06.0G474728 | 2000 MHz      | 6000 MHz      | 50           |
| MB2.0018G333018 | 2000 MHz      | 18000 MHz     | 2            |
| MB2.0018G434822 | 2000 MHz      | 18000 MHz     | 20           |
| MB2.42.5G574850 | 2400 MHz      | 2500 MHz      | 500          |
| MP2.73.1G596050 | 2700 MHz      | 3100 MHz      | 800 (pulsed) |
| MP5.25.8G545050 | 5200 MHz      | 5800 MHz      | 300 (pulsed) |
| MB6.0012G444820 | 6000 MHz      | 12000 MHz     | 25           |
| MB6.0018G434820 | 6000 MHz      | 18000 MHz     | 20           |
| MP8.0011G534828 | 8000 MHz      | 11000 MHz     | 200 (pulsed) |
| MP9.59.6G575750 | 9500 MHz      | 9600 MHz      | 500 (pulsed) |
| MB018026G434420 | 18000 MHz     | 26500 MHz     | 20           |
| MB026040G434420 | 26500 MHz     | 18000 MHz     | 20           |

All modules are also available in either standard rack-mount or custom-configured systems, featuring integrated thermal management, protection mechanisms, and embedded control systems. For custom solutions, contact [sales@eliterf.com](mailto:sales@eliterf.com)

## High-Power RF Systems – Custom designs built to customer specifications



| Frequency Min | Frequency Max | Mode   | Psat/Peak (Watts)      |
|---------------|---------------|--------|------------------------|
| 2 MHz         | 250 MHz       | CW     | 400                    |
| 20 MHz        | 18000 MHz     | CW     | 20                     |
| 65 MHz        | 69 MHz        | CW     | 6000                   |
| 174 MHz       | 640 MHz       | CW     | 400                    |
| 223 MHz       | 233 MHz       | Pulsed | 3000 (30% duty cycle)  |
| 348 MHz       | 352 MHz       | CW     | 10000                  |
| 431 MHz       | 437 MHz       | Pulsed | 6000 (1% duty cycle)   |
| 500 MHz       | 2500 MHz      | CW     | 400                    |
| 2700 MHz      | 3100 MHz      | Pulsed | 18000 (10% duty cycle) |
| 2400 MHz      | 2500 MHz      | CW     | 6000                   |
| 5500 MHz      | 5700 MHz      | Pulsed | 10000 (10% duty cycle) |
| 9900 MHz      | 10400 MHz     | CW     | 1200                   |

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## 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          |
| 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          |
| DB.502.0G5757AC | 500 MHz       | 2000 MHz      | 500          |
| DB.706.0G5353AC | 700 MHz       | 6000 MHz      | 200          |
| DA1.06.0G5757AC | 1000 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          |
| DB018027G4747AC | 18000 MHz     | 26500 MHz     | 50           |
| DB026040G4747AC | 26500 MHz     | 40000 MHz     | 50           |

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 the 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 |

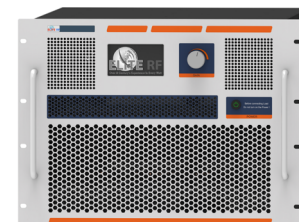
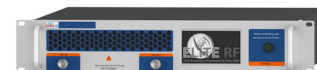
## The Elite RF Advantage

### Custom designs in half the time

Elite RF has spent years developing a building block approach that now allows the design of custom systems in half the time of other companies.

The amplifier shown on the right is a 2.7 - 3.1 GHz, 18 kW system designed to the customer's specifications for a radar application. Elite RF designed, built, and shipped the system in 20 weeks - competitor delivery times for the same system ranged from 40 to 60 weeks.

When you need a custom RF amplifier/system design and a rugged, high-power product quickly, Elite RF is the answer.



*Prototype of a Custom High Power 2.7- 3.1 GHz, 18 kW pulsed radar amplifier system delivered in 20 weeks per customer specifications*

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## Your Trusted Source for High-Volume RF Amplifier Modules and Systems

**From Prototype to High-Volume Manufacturing we deliver precision, speed and reliability every step of the way.**

### CONCEPT

Elite RF delivers fast-turnaround design solutions and specification development, tackling challenges and opportunities through system-level engineering approach. We thrive on solving complex RF challenges. We apply cutting-edge design methods while creating affordable, high-performance RF solutions tailored to our end-user needs — all while navigating complex technical demands.

### DESIGN

Our full-spectrum design services ranging from 1 MHz to 40 GHz at power levels of 1W to 100kW redefine the scope possibility. We provide complete system and subsystem design, and analysis services to elevate your RF and Microwave capabilities. Our High Power Amplifiers, Bidirectional Amplifiers, and Microwave Generators support the RF marketplace in the lab and in the field.

### QUALIFICATION -

#### **Our Best-In-Class Partner Network**

We don't just meet standards we exceed them. Elite RF has trusted partners we work with to qualify the product according to the MIL Standards and Medical Standards our clients adhere to. Our partners facilities include anechoic chambers, vibration/shock tables, and environmental chambers to rigorously test EMI/EMC compliance and resilience under extreme conditions — all while meeting strict qualification requirements efficiently.

### PRODUCTION

With ISO 9001:2015-certified in-house manufacturing and testing teams, Elite RF handles high-volume production for defense, aerospace, and commercial clients. As a turnkey partner for high volume programs, we maintain ITAR-compliant workflows while optimizing costs through lean production strategies. From low rate production to full deployment, we support our customers' growth every step of the way. We excel in cost-efficient high-end manufacturing and have best in class partners that we work with to manufacture in the most sensible and effective manner. We provide end-to-end solutions — from conceptual specifications to a final product ready to amplify the market of possibility. Come see the Elite RF difference and experience what our RF expertise brings to your custom RF design.

### CAPABILITIES

- 4 KHz to 40 GHz
- 1W to 100kW
- Modular designs
- Rack mount designs
- MIL STD testing
- ISO9001 Certified
- AS9100 Compliant
- ISO13485 Compliant
- **COTS RF Amplifiers**
- **Custom Designs**
- **Industry Leading Warranty**



**SCAN  
FOR MORE  
INFORMATION**

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