



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



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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	40000 MHz	20

*Designed compact 500–2500 MHz amplifier for military application; shipped 1000+ units in 6 months.

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

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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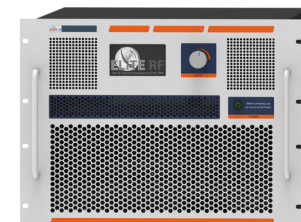
Phone: 847-592-6350

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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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