

**LIGHT, COMPACT****POWER AMPLIFIER****100 WATTS, 20-305 MHz****AMPLIFIER SPECIFICATIONS:**

- Latest "GaN", Gallium Nitride RF devices
- Class AB Operation
- Frequency: 20 - 305 MHz
- RF Output: 100 Watts minimum
- Ultra-Fast Blanking < 5µsec.
- Efficiency: 30% Minimum
- DC/DC Converter: (26-30 VDC Input) Fully Integrated, High Efficiency
- Unconditionally Stable over all Load VSWR and Phase Conditions.
- Operates at Full Output Power into a 2.5:1 Load VSWR
- Low Standby Power Consumption
- Weight: < 2 pounds
- Optional Internal Coupler
- Protection:
  - Over-current
  - Over-temperature
- Base-Plate Temperature:
  - Operating: -20°C to +85°C
  - Non-Operating: -45°C to +95°C
- Size: 5.5" x 4.5" x 1.6"
- Output sample port available

Advanced RF Amplifier - Model Number RF40003 is suitable for delivering reliable output power over the instantaneous frequency range of 20-305 MHz. The PA is ideal for broadband military applications. The power amplifier will operate over 26-30 VDC input voltage. The PA utilizes the latest in GaN, Gallium Nitride RF devices. Suitable for multiple mounting configurations and platforms.

Advanced RF Amplifiers, a Division of BC Systems Inc., is a designer and manufacturer of Solid State Power Amplifier modules and integrated assemblies, using the latest device technology and matching techniques to achieve reliable, ultra broadband power amplifiers. Power amplifiers are designed for multi-mode applications covering frequency ranges from HF through C band (1 MHz to 6 GHz) supporting power requirements from one watt to multi-kilowatts. Military applications include all service platforms: ground, air and shipboard. Industrial grade amplifiers are also available for laboratory and scientific applications.

Advanced RF Amplifiers technical qualifications are based on our vast experience in the design and manufacture of solid state power amplifiers used in Pulsed, Radar, IFF, CW, Jamming/ECM, IED's, Electronic Attack, Communications, SATCOM, DAMA, SDR, DMR, and Medical Radiotherapy. Advanced RF Amplifiers employs innovative packaging and thermal management designs.

BC Systems is a Veteran owned business serving the U.S. Government and U.S. Military for over 22 years.

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**"ALL OF YOUR POWER REQUIREMENTS FROM DC TO RF"**