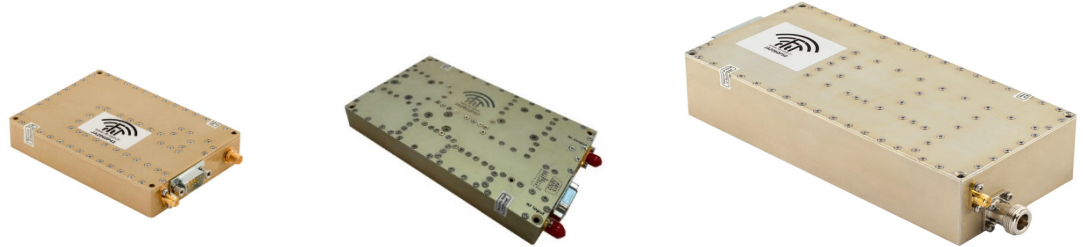




# 2000 - 6000 MHz MODULE AMPLIFIERS PRODUCT FAMILY

- Solid-state Class AB design
- Ultra wide-band Operation
- GaN on SiC Transistors
- High reliability and ruggedness
- Open/Short Load Full Protection
- Forward/Reflected Power Monitorings
- Fast Switching Capability
- Shock & Vibration: MIL-STD-810F/G
- Suitable for CW & Pulsed Waveforms
- Do not require any export license.



| Part Number:                           | <b>JA20006000P43</b>   | <b>JA20006000P47</b>   | <b>JA20006000P50</b>    |
|--|------------------------|------------------------|-------------------------|
| Output Power:                          | 20 W typ. 15 W min. CW | 50 W typ. 40 W min. CW | 100 W typ. 90 W min. CW |
| RF input for Rated Output:             | -10 dBm typ.           | -10 dBm typ.           | -5 dBm typ.             |
| Nominal Gain (@ SS input):             | 53 ± 4 dB typ.         | 60 ± 4 dB typ.         | 60 ± 5 dB typ.          |
| Input VSWR:                            | 2:1 max.               | 2:1 max.               | 2:1 max.                |
| Load VSWR for Survival:                | ∞:1 (Fully Protected)  | ∞:1 (Fully Protected)  | ∞:1 (Fully Protected)   |
| 2 <sup>nd</sup> &3 <sup>rd</sup> Harm: | < -15 & -20 dBc        | < -15 & -20 dBc        | < -15 & -20 dBc         |
| Spurious:                              | < -60 dBc              | < -60 dBc              | < -60 dBc               |
| DC Supply Voltage:                     | 28 V / 5 A avg typ.    | 28 V / 8.5 A avg typ.  | 28 V / 20 A avg typ.    |
| Enable Speed:                          | 3 μs max.              | 3 μs max.              | 4 μs max.               |
| Operating Case Temp.:                  | -40 °C to 85 °C        | -40 °C to 85 °C        | -40 °C to 65 °C         |
| Size (mm) :                            | 115 x 83 x 19.5        | 160.1 x 94.3 x 19.5    | 197 x 89 x 40           |
| (inch) :                               | 4.5 x 3.27 x 0.77      | 6.3 x 3.71 x 0.77      | 7.75 x 3.5 x 1.57       |
| Weight :                               | 400 gr.                | 700 gr.                | 1250 gr.                |

## GENERAL DESCRIPTION

RFTR's 2000-6000 MHz module amplifier family consists of reliable ultra wide-band power amplifiers achieving various output power levels. These amplifiers are suitable for CW or Pulsed waveforms and can be used in different applications such as radars, datalinks, jammers, UAVs in S and C bands. All modules offer forward-reverse power monitorings and survive under ∞:1 load VSWR condition. PAs can be enabled/disabled in as fast as 4 μs that makes them suitable for power saving during pulsed applications.

All products in this family are designed with the components that do not require any export license.