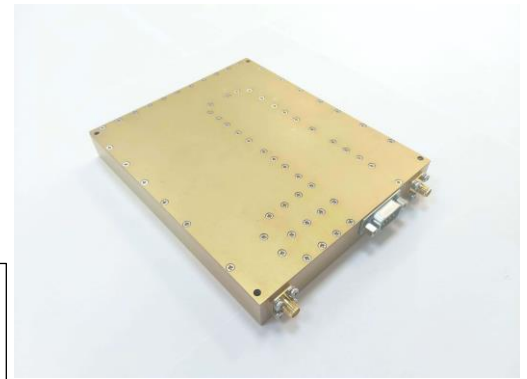




# JA05004000P47; 500 – 4000 MHz 50 W AMPLIFIER

- Solid-state Class AB design
- Ultra wide-band Operation
- GaN on SiC Transistors
- High reliability and ruggedness
- Forward/Reflected Power Monitoring
- Fast Switching Capability



## ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

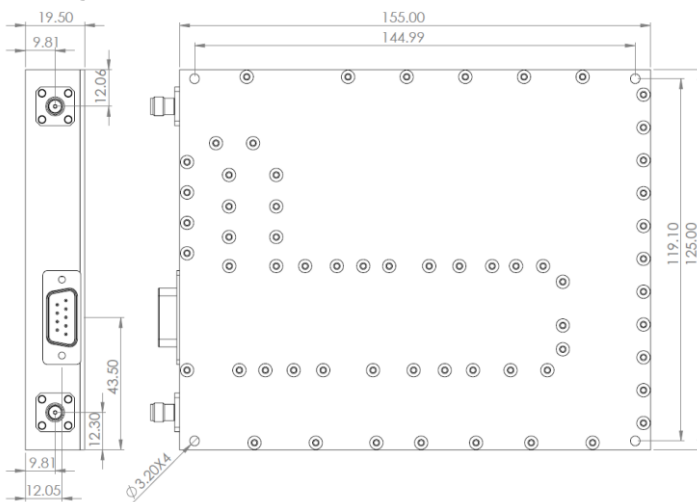
<b>Frequency:</b>	500-4000 MHz
<b>Output Power:</b>	50 W typ. 45 W min. @ 600-3800MHz
	25 W min. @ 500 MHz-600 MHz
	25 W min. @ 3800 MHz-4000 MHz
<b>RF input for Rated Output:</b>	0 dBm typ.
<b>Nominal Gain (@ SS input):</b>	47 ± 4 dB typ.
<b>Input VSWR:</b>	2:1 max.
<b>Load VSWR for Survival:</b>	∞:1 (Fully Protected)
<b>DC Supply Voltage:</b>	30 V
<b>Enable Speed:</b>	5 μs max.
<b>Operating Case Temp.:</b>	-40 °C to 85 °C
	External Heatsink Required
<b>Storage Temperature:</b>	-40 °C to 85 °C

## INTERFACES

<b>RF Input:</b>	SMA Female
<b>RF Output:</b>	SMA Female
<b>9-PIN DSUB:</b>	1) GND
	2) GND
	3) 30 V
	4) Enable
	5) Reverse Power
	6) GND
	7) 30 V
	8) 30 V
	9) Forward Power

## MECHANICAL SPECIFICATIONS

<b>Size (mm) :</b>	155 × 125 × 19.5
<b>(inch) :</b>	6.1 × 4.9 × 0.77
<b>Weight :</b>	675 gr.
<b>Plating :</b>	Yellow Chromate



## GENERAL DESCRIPTION

RFTR's JA05004000P47 is a reliable ultrawide-band 50W power amplifier operating between 500-4000 MHz and suitable for CW or Pulsed waveforms. This amplifier can be used in different applications such as radars, datalinks, mobile jamming or UAVs in S and L bands. JA05004000P47 offers forward-reverse power monitoring and survives under ∞:1 load VSWR condition. The PA can be enabled/disabled as fast as 5 μs that makes it suitable for power saving during pulsed applications.

JA05004000P47 is designed with the components that do not require any export license.