



# JA600018000P47; 6 – 18 GHz 50W AMPLIFIER

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

## ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

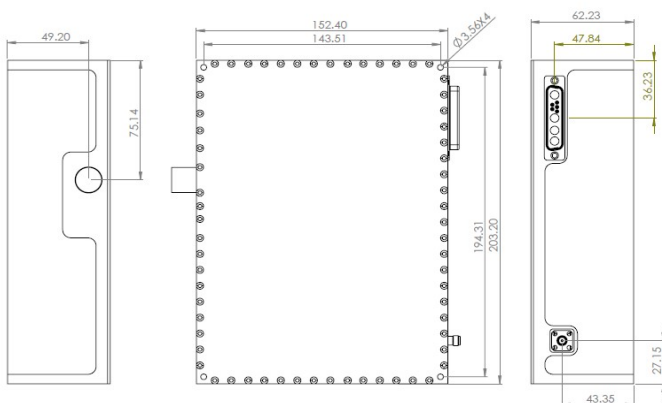
<b>Frequency:</b>	6000-18000 MHz
<b>Output Power:</b>	60 W typ. 50 W min.
<b>RF input for Rated Output:</b>	0 dBm typ.
<b>Nominal Gain (@ SS input):</b>	60 ± 5 dB typ.
<b>Input VSWR:</b>	2:1 max.
<b>Maximum Input Power:</b>	+10 dBm
<b>Spurious / 2<sup>nd</sup>&amp;3<sup>rd</sup> Harm:</b>	<-60 dBc / < -10&-20 dBc
<b>DC Supply Voltage:</b>	28 V
<b>Enable Speed:</b>	4 µs max.
<b>Operating Case Temp.:</b>	-40 °C to 65 °C External Heatsink Required
<b>Storage Temperature:</b>	-40 °C to 85 °C
<b>Shock:</b>	MIL-STD-810F/G
<b>Vibration:</b>	MIL-STD-810F/G

## INTERFACES

<b>RF Input:</b>	SMA Female
<b>RF Output:</b>	N Female
<b>9-PIN COMBO:</b>	A1) GND A2) GND A3) 28 V A4) 28V 1) Enable 2) Alarm 3) Temperature (Analog) 4) Reverse Power (Analog) 5) Forward Power (Analog)

## MECHANICAL SPECIFICATIONS

**Size (mm) :** 203 × 152 × 63.5  
**Weight :** 2500 gr.  
**Plating :** Yellow Chromate



## GENERAL DESCRIPTION

RFTR's JA600018000P47 is a reliable ultrawide-band 50W power amplifier operating between 6000 - 18000 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 C, X and Ku bands. JA600018000P47 offers forward-reverse power monitoring. The PA can be enabled/disabled as fast as 4 µs that makes it suitable for power saving during pulsed applications.

JA600018000P47 is designed with the components that do not require any export license.