



JA20006000P47; 2 – 6 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

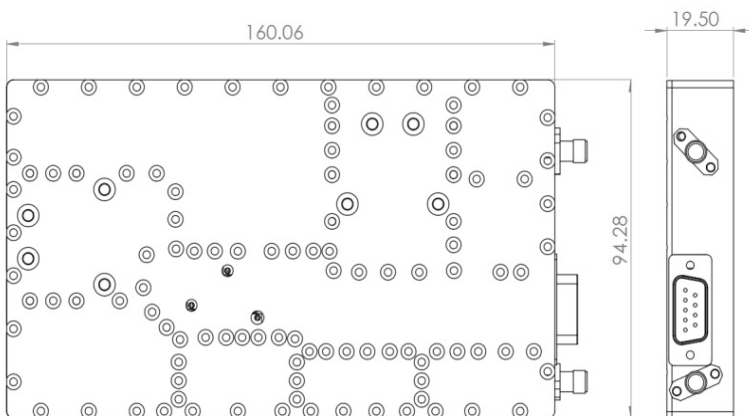
Frequency:	2000-6000 MHz
Output Power:	50 W typ. 40 W min.
RF input for Rated Output:	-10 dBm typ.
Nominal Gain (@ SS input):	60 ± 4 dB typ.
Input VSWR:	2:1 max.
Load VSWR for Survival:	∞:1 (Fully Protected)
Spurious / 2nd&3rd Harm:	<-60 dBc / < -15&-20 dBc
DC Supply Voltage:	28 V
DC Current:	8.5 A Avg typ.
Enable Speed:	3 μs max.
Operating Case Temp.:	-40 °C to 85 °C External Heatsink Required
Storage Temperature:	-40 °C to 85 °C
Shock:	MIL-STD-810F/G
Vibration:	MIL-STD-810F/G

INTERFACES

RF Input:	SMA Female
RF Output:	SMA Female
9-PIN DSUB:	1) GND 2) GND 3) 28 V 4) Enable 5) Reverse Power (0 - 3V Analog) 6) GND 7) 28 V 8) 28 V 9) Forward Power (0 - 3V Analog)

MECHANICAL SPECIFICATIONS

Size (mm) :	160.1 x 94.3 x 19.5
(inch) :	6.3 x 3.71 x 0.77
Weight :	700 gr.
Plating :	Yellow Chromate



GENERAL DESCRIPTION

RFTR's JA20006000P47 is a reliable ultrawide-band 50W power amplifier operating between 2000-6000 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 C bands. JA20006000P47 offers forward-reverse power monitoring and survives under ∞:1 load VSWR condition. The PA can be enabled/disabled as fast as 3 μs that makes it suitable for power saving during pulsed applications.

JA20006000P47 is designed with the components that do not require any export license.