



# JA20006000P43; 2 – 6 GHz 20W 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

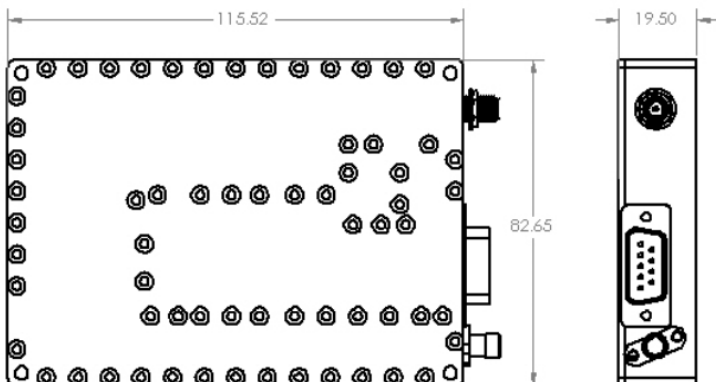
<b>Frequency:</b>	2000-6000 MHz
<b>Output Power:</b>	20 W typ. 15 W min.
<b>RF input for Rated Output:</b>	-10 dBm typ.
<b>Nominal Gain (@ SS input):</b>	53 ± 4 dB typ.
<b>Input VSWR:</b>	2:1 max.
<b>Load VSWR for Survival:</b>	∞:1 (Fully Protected)
<b>Spurious / 2<sup>nd</sup>&amp;3<sup>rd</sup> Harm:</b>	<-60 dBc / < -15&-20 dBc
<b>DC Supply Voltage:</b>	28 V
<b>DC Current:</b>	5 A Avg typ.
<b>Enable Speed:</b>	3 μs max.
<b>Operating Case Temp.:</b>	-40 °C to 85 °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>	SMA Female
<b>9-PIN DSUB:</b>	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

<b>Size (mm) :</b>	115 x 83 x 19.5
<b>(inch) :</b>	4.5 x 3.27 x 0.77
<b>Weight :</b>	400 gr.
<b>Plating :</b>	Yellow Chromate



## GENERAL DESCRIPTION

RFTR's JA20006000P43 is a reliable ultrawide-band 20W 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. JA20006000P43 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.

JA20006000P43 is designed with the components that do not require any export license.