



# JA08200960P53; 820 – 960 MHz 200W AMPLIFIER

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



## ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

<b>Frequency:</b>	820 - 960 MHz
<b>Output Power:</b>	200 W typ., 180W min.
<b>RF input for Rated Output:</b>	0 dBm typ.
<b>Nominal Gain:</b>	53 dB typ.
<b>Input VSWR:</b>	2:1 max.
<b>Load VSWR for Survival:</b>	∞:1 (Fully Protected)
<b>DC Supply Voltage:</b>	28 V
<b>DC Current:</b>	11.5 A Avg typ.
<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

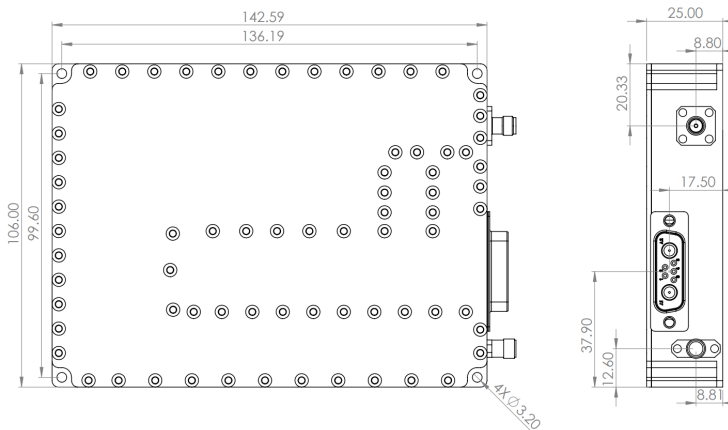
<b>RF Input:</b>	SMA Female
<b>RF Output:</b>	SMA Female
<b>7-PIN DSUB:</b>	A1) GND A2) 28V 1) Current * 2) Forward Power 3) Enable (Active Low) 4) Temperature ** 5) Reverse Power

\* Ampere(A) = [ Voltage(mV) – 100 ] / 120

\*\* Temp(°C) = [ Voltage(mV) – 1000 ] / 20

## MECHANICAL SPECIFICATIONS

<b>Size (mm) :</b>	142.6 x 106 x 25
<b>Weight :</b>	580 gr.
<b>Plating :</b>	Yellow Chromate



## GENERAL DESCRIPTION

RFTR's JA08200960P53 is a reliable ultrawide-band 200W power amplifier operating between 820-960 MHz and suitable for CW or Pulsed waveforms. This amplifier can be used in different applications such as radars, datalinks, mobile jamming or UAVs. JA08200960P53 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.

JA08200960P53 is designed with the components that do not require any export license.