



# IA20006000P50; 2 – 6 GHz 100W AMPLIFIER

- Solid-state Class AB design
- Ultrawide-band Operation
- Suitable for CW & Pulsed Waveforms
- GaN on SiC Transistors
- High reliability and ruggedness
- Forward/Reflected Power, Current & Temperature Monitoring
- Open/Short Load Full Protection
- Fast Switching Capability



## ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

<b>Frequency:</b>	2000 - 6000 MHz
<b>Output Power:</b>	100 W min. CW
<b>RF input for Rated Output:</b>	-5 dBm typ.
<b>Gain (@-15dBm input):</b>	60 dB ± 5 dB typ.
<b>Overdrive Input Power:</b>	+10 dBm
<b>Input VSWR:</b>	2:1 max.
<b>Load VSWR Survival:</b>	∞:1 (Fully Protected)
<b>2<sup>nd</sup> &amp; 3<sup>rd</sup> Harm:</b>	< -15 & -20 dBc typ.
<b>Spurious</b>	< -60 dBc
<b>AC Supply Voltage:</b>	85 - 265 VAC (220 VAC nom.) 47 - 63 Hz
<b>Operating Case Temp.:</b>	-20 °C to 55 °C (FAN cooling)
<b>Storage Temp.:</b>	-30 °C to 85 °C
<b>Shock:</b>	MIL-STD-810F/G
<b>Vibration:</b>	MIL-STD-810F/G

## INTERFACES

<b>RF Input:</b>	N Female
<b>RF Output:</b>	N Female
<b>RF Sample:</b>	N Female
<b>Power:</b>	MIL-DTL-38999
<b>Programming:</b>	MIL-DTL-38999
<b>Control:</b>	Ethernet / LCD Display

## MECHANICAL SPECIFICATIONS

<b>Size (mm) :</b>	482.6 (W) x 670 (L) x 133.4 (H)
<b>(inch) :</b>	19 x 26.4 x 5.25 (3U)
<b>Weight :</b>	30 kg.
<b>Plating :</b>	Yellow Chromate

## GENERAL DESCRIPTION

RFTR's IA20006000P50 is a reliable ultrawide-band 100W power amplifier instrument 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.

IA20006000P50 offers forward-reverse power, temperature and current monitoring and generates alarm for the unexpected conditions. Both the Ethernet interface and LCD display interface are available for controlling the instrument. IA20006000P50 can survive under open/short load conditions. The supply voltage of the instrument is AC which operates with 85 – 265VAC, 47 – 63 Hz.

IA20006000P50 is designed with the components that do not require any export license.

## OPTIONS

- OPT-1:** Harmonic Filter \*
- OPT-2:** RF Switching Unit \*
- OPT-3:** RS-485 (A), CAN BUS (B), RS-232 (C)

\* Output power may be degraded with those options