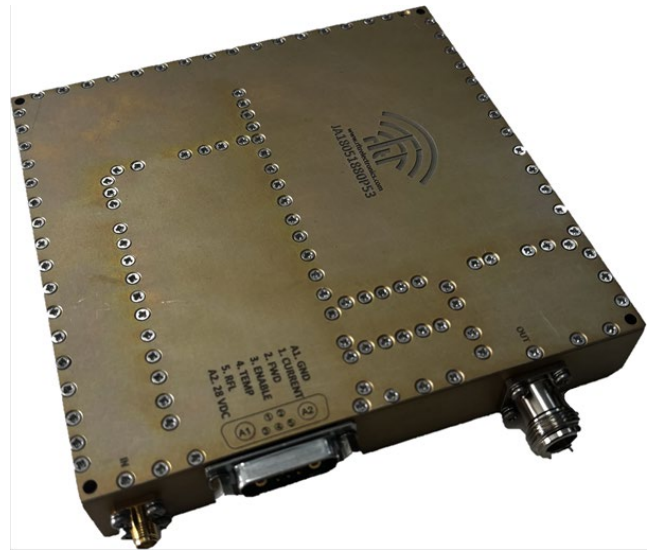




JA18051880P53; 1805-1880 MHz 200W AMPLIFIER

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



ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------------------|---|
| Frequency: | 1805-1880 MHz |
| Output Power: | 200 W typ., 180W min. |
| RF input for Rated Output: | -6 dBm typ. |
| Nominal Gain: | 59 dB typ. |
| Input VSWR: | 2:1 max. |
| Load VSWR for Survival: | ∞:1 (Fully Protected) |
| DC Supply Voltage: | 28 V |
| DC Current: | 16 A Avg typ. |
| Enable Speed: | 5 μs max. |
| Operating Case Temp.: | -40 °C to 85 °C External Heatsink Required |
| Storage Temperature: | -40 °C to 85 °C |

INTERFACES

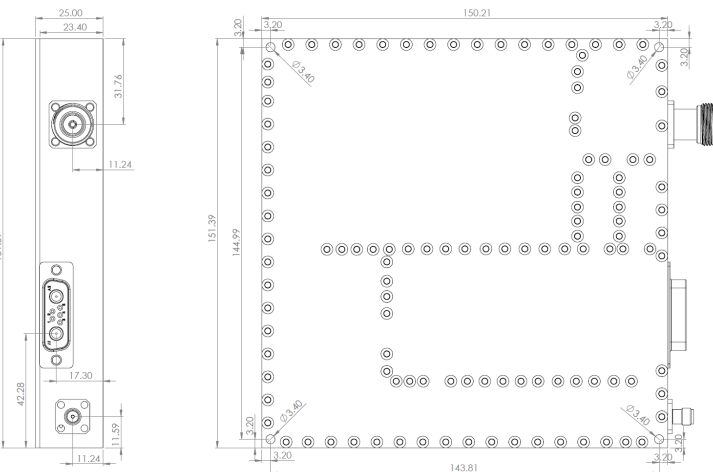
| | |
|--------------------|---|
| RF Input: | SMA Female |
| RF Output: | N Female |
| 7-PIN DSUB: | A1) GND A2) 28V 1) Current * 2) Forward Power 3) Enable (Active Low) 4) Temperature ** 5) Reverse Power |

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

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

MECHANICAL SPECIFICATIONS

| | |
|--------------------|--------------------|
| Size (mm) : | 150.2 x 151.4 x 25 |
| Weight : | 925 gr. |
| Plating : | Yellow Chromate |



GENERAL DESCRIPTION

RFTR's JA18051880P53 is a reliable ultrawide-band 200W power amplifier operating between 1805-1880 MHz and suitable for CW or Pulsed waveforms. This amplifier can be used in different applications such as radars, datalinks, mobile jamming or UAVs. JA18051880P53 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.

JA18051880P53 is designed with the components that do not require any export license.