

JA600018000P49; 6 - 18 GHz 80W AMPLIFIER

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

ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

Frequency: 6000-18000 MHz

Output Power: 80 W typ. 75 W min.

RF input for Rated Output: 0 dBm typ. Nominal Gain (@ SS input): 60 ± 5 dB typ.

Input VSWR: 2:1 max.

Maximum Input Power: +10 dBm

Spurious / 2nd&3rd Harm: <-60 dBc / < -10&-20 dBc

DC Supply Voltage: 28 V

Enable Speed: 4 µs max.

Operating Case Temp.: -40 °C to 65 °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: N Female

9-PIN COMBO: A1) GND

A2) GND A3) 28 V A4) 28V 1) Enable

2) Alarm

3) Temperature (Analog)

4) Reverse Power (Analog)

5) Forward Power (Analog)

MECHANICAL SPECIFICATIONS

Size (mm): $203 \times 152 \times 63.5$ (inch): $8 \times 6 \times 2.5$

Weight: 2500 gr.

Plating: Yellow Chromate

GENERAL DESCRIPTION

RFTR's JA600018000P49 reliable ultrawide-band 80W power amplifier operating between 6000 - 18000 MHz and suitable for CW or Pulsed waveforms. This amplifier can be used in different applications such as radars, datalinks, mobile jamming UAVs in C, X and Ku bands. JA600018000P49 offers forward-reverse The PA can power monitorina. enabled/disabled as fast as 4 µs that makes it suitable saving during for power pulsed applications.

JA600018000P49 is designed with the components that do not require any export license.

www.rftrelectronics.com

sales@rftrelectronics.com