



JA600018000P49A; 6 – 18 GHz 90W 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

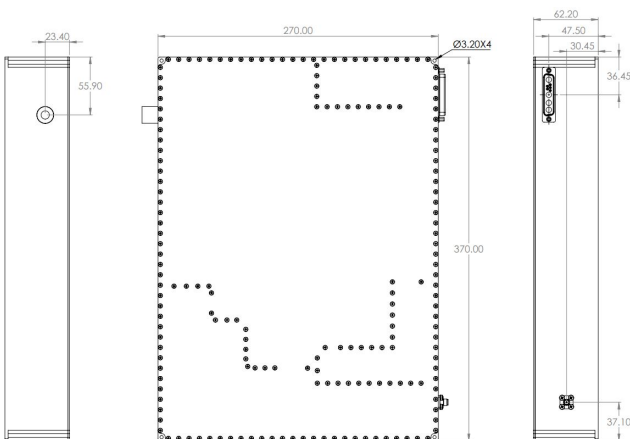
Frequency:	6000-18000 MHz
Output Power:	100 W typ. 80 W min.
RF input for Rated Output:	0 dBm typ.
Nominal Gain (@ SS input):	62 ± 5 dB typ.
Input VSWR:	2:1 max.
Load VSWR for Survival:	∞:1 (Fully Protected)
Maximum Input Power:	+10 dBm
Spurious / 2nd&3rd Harm:	<-60 dBc / < -10&-20 dBc
DC Supply Voltage:	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) :	370 × 270 × 62.2
(inch) :	14.6 x 10.6 x 2.45
Weight :	5500 gr.
Plating :	Yellow Chromate



GENERAL DESCRIPTION

RFTR's JA600018000P49A is a reliable ultrawide-band 90W 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 or UAVs in C, X and Ku bands. JA600018000P49A offers forward-reverse power monitoring and survives under ∞:1 load VSWR condition. The PA can be enabled/disabled as fast as 4 μs that makes it suitable for power saving during pulsed applications.

JA600018000P49A is designed with the components that do not require any export license.