



# JA01000500P46; 100 MHz – 500 MHz 40W Amplifier

- Solid-state Class AB design
- GaN on SiC Transistors
- High reliability and ruggedness
- Ultra Small Dimensions & Ultra Light Weight
- Forward/Reflected Power Monitorings
- Temperature and Current Monitorings
- Enable Control



## ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

<b>Frequency:</b>	100-500 MHz
<b>Output Power:</b>	40 W CW
<b>Nominal Gain:</b>	46 dB
<b>Gain Flatness:</b>	± 2 dB
<b>Input VSWR:</b>	2:1 max.
<b>Load VSWR for Survival:</b>	∞:1 for 1 min.
<b>DC Supply Voltage:</b>	28 V
<b>DC Current:</b>	2.8 A Avg
<b>Operating Case Temp.:</b>	-40 °C to 85 °C
<b>Storage Temperature:</b>	-40 °C to 85 °C
<b>Shock:</b>	MIL-STD-810F/G
<b>Vibration:</b>	MIL-STD-810F/G

## INTERFACES

<b>RF Input:</b>	SMA Female
<b>RF Output:</b>	SMA Female
<b>9-PIN DSUB:</b>	1) Current
	2) Temperature
	3) Enable (Active Low)
	4) Forward Power
	5) Reverse Power
	6) 28V
	7) 28V
	8) GND
	9) GND

## MECHANICAL SPECIFICATIONS

<b>Size (mm) :</b>	90 x 90 x 22
<b>(inch) :</b>	3.55 x 3.55 x 0.87
<b>Weight :</b>	250 gr.
<b>Plating :</b>	Yellow Chromate

