



JA0105P46FS/ 100-500 MHz-40 W

JA0105P46FS is a high power, broadband GaN on SiC amplifier that operates from 100 MHz to 500 MHz. The power amplifier is ideal for man-pack jammer applications operating under severe enviromental conditions.

- Solid-state Class AB design
- Instantaneous broad bandwidth
- 50 Ohm Input / Output impedance
- High reliability and ruggedness
- Unconditionally Stable Operation
- Small Dimensions and Light Weight
- Forward/Reflected Power Monitorings
- Enable Control-Fast Switching
- Temperature and Current Monitorings



Electrical Specification	
Frequency	100-500 MHz
Saturated Output Power	40 W (typ.), 35W (min.)
Nominal Gain	46 dB @ Pin=0 dBm (typ.)
Large Signal Gain Flatness	+/- 2 dB @ Pin=0 dBm
Input VSWR	2 : 1 (max.)
Load VSWR for Survival	∞ : 1
DC Current Consumption	3.0 A (typ.)
ON/OFF Switching Time	< 6 usec.
Enable OFF Output Noise	-150 dBm/Hz max.
Enable OFF I_{DQ}	<50 mA
RF In / Out Connector	SMA Female / SMA Female
I/O Map (D-sub 9 pin M)	<ol style="list-style-type: none"> 1. Current Monitoring 2. Temperature Monitoring 3. Enable (Active Low) 4. Forward Power Monitoring 5. Reverse Power Monitoring





	6,7. V _{DD} (28 V)
	8,9. GND

Environmental Specifications

Operating case temperature	-30 - +85 C
Storage temperature	-40 - +85 C

Mechanical Specifications

Size (WxDxH)	90 x 90 x 22 mm
Weight	250 gr (max.)
Cooling	With a proper heat sink
Plating	Yellow chromate plating

