



## JA0105P51FS / 100-500 MHz-135 W

JA0105P51FS is a high power, broadband MOS amplifier that operates from 100 MHz to 500 MHz. The power amplifier is ideal for various applications operating under severe environmental 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



Electrical Specification	
Frequency	100-500 MHz
Saturated Output Power	150 W (typ.), 125 W (min.)
Nominal Gain	51 dB @ Pin=0 dBm (typ.)
Large Signal Gain Flatness	+/- 2 dB @ Pin=0 dBm
Input VSWR	2 : 1 (max.)
Load VSWR for Survival	$\infty$ : 1
DC Current Consumption	Typ. 12 A @ Pout=51.5 dBm
ON/OFF Switching Time	<6 usec.
Enable OFF Output Noise	-150 dBm/Hz max.
Enable OFF I <sub>DQ</sub>	<50 mA
RF In / Out Connector	SMA Female / N Female
I/O Map (Combo 7W2 M)	A1. GND
	A2. 28V
	1. Temperature Monitoring
	2 . Current Monitoring
	3. Reverse Power Monitoring





- 4. Forward Power Monitoring
- 5. Enable (Active Low)

### Environmental Specifications

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

### Mechanical Specifications

Size (WxDxH)	150x145x34 mm
Weight	800 gr (max.)
Cooling	With a proper heat sink
Plating	Yellow chromate plating

