



# JA03800520P54FS; 380 MHz – 520 MHz 250W Amplifier

- Solid-state Class AB design
- Ruggedized MOS Transistors
- MOS 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>              | 380-520 MHz             |
| <b>Output Power:</b>           | Typ 250 W, Min 200 W CW |
| <b>Nominal Gain:</b>           | 54 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>             | 23.3 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> | N Female               |
| <b>7W2 COMBO:</b> | A1) GND                |
|                   | A2) 28 V               |
|                   | 1) N.C.                |
|                   | 2) Temperature*        |
|                   | 3) Enable (Active Low) |
|                   | 4) Forward Power       |
|                   | 5) Reflected Power     |

\*Temp(°C) = (Voltage(mV) - 1000) / 20

## MECHANICAL SPECIFICATIONS

|                    |                    |
|--------------------|--------------------|
| <b>Size (mm) :</b> | 190 x 170 x 34     |
| <b>(inch) :</b>    | 7.48 x 6.69 x 1.34 |
| <b>Weight :</b>    | 1560 gr.           |
| <b>Plating :</b>   | Yellow Chromate    |

