# TWAMP002326-80

# RF Power Amplifier

## Typical Applications

- Aerospace and military applications
- Wireless telecom systems
- ISM Applications

## Main Features

80 W High Power Amplifier 2.3 – 2.6 GHz
High reliability and Ruggedness
Connectorized Housing
Separate Bias pin for Shutdown or Blanking
Customization available upon request

## Electrical Specifications, Ta = +25°, Vdd = +50V

| Parameter | Unit | Specification |
|---|---|---|
| Frequency Range | GHz | 2.3 – 2.6 |
| Power Gain | dB | 22 typ. |
| Gain variation | dB | +- 1.5 max |
| Saturated Output Power | dBm | 48.5 min CW |
| Noise Figure | dB | 10 max |
| Input / output VSWR | dB | 1.6 : 1 max / 1.6 : 1 max |
| Harmonics | dBc | 20 min @ Rated Power |
| Non Harmonics Spurious | dBc | 60 min |
| Input Power for Nominal Output | dBm | 25 typ. CW |
| In/Out Impedance | Ohm | 50 typ. |
| Supply voltage | V | +50 +- 0.5 typ. |
| Drain Efficiency | % | 71 typ. |
| Supply Current Ids (Vdd=+50V) | A | 2.3 max @ Saturated Power |
| ON/OFF Control | | Amplifier Enable : TTL “Low” (Logic 0) or Open<br>Amplifier Disable :TTL “High” (Logic 1) |

## Environment

| Parameter | Unit | Specification |
|---|---|---|
| Operating Temperature | °C | -20°C to +55°C |
| Storage Temperature | °C | -40°C to +125°C |

## Mechanical Specifications

| Parameter | Unit | Specification |
|---|---|---|
| Dimensions | mm | 65 x 45 x 10 |
| RF connectors | | SMA - Female |

## Outline drawing

All dimensions in inches