

DPA3

Power Amplifier

This High Power Amplifier is one in a series that bring a new level of performance and reliability when high-power microwave transmission is a must. Packaged in a rugged aluminum housing, the DPA series amplifiers are specifically designed to operate where severe environmental conditions are the norm.



Key Features

- ALC Control
- Pre Distortion Correction
- High efficiency GaN output devices
- LED indicators and logic telemetry for RF OK / REV VSWR

Typical Applications

- Airborne Operations
- Maritime Reconnaissance

Specification

Input Voltage

- 12-30VDC (5W)
- 12-30VDC (10W)
- 20-30VDC (20W)

Power

- Target 140W

Input Level

- 100mW - 500mW

Frequency Band

- 1.40 to 5.10GHz (5W)
available in 500MHz ranges
- 1.40 to 5.10GHz (10W)
available in 500MHz ranges
- 2.00 to 3.41GHz (20W)
available in 300MHz ranges

Modulation

- 2K Carriers DVB-T 6MHz
bandwidth

Transmit Power

- Available in 5W, 10W or
20W (factory option)

Spectral Regrowth

- To ETSI TR101 290 (9) v1.2.1
Section 6.9.2

Power Input & Telemetry

- Mil-C AB05 Series 12 Way

RF Input

- "N" Type male 50 Ω
impedance

RF Output

- "N" Type male 50 Ω
impedance

Weight

- 2.8kg

Weatherproof Package

- -20 to +50°C
- Altitude 4500m
- Humidity 95% Long Term
- RTCA DO-160, ED-14
Specification