Caband SSPA



IN-SNEC®

This C-band power amplifier is designed to be integrated in telemetering systems.

It can provide:

- constant envelope modulation signal with up to 80W output power
- OFDM signal with up to 20W output power

Its input is compatible with the ZODIAC DATA SYSTEMS transmitters output.

It includes an air-cooled system.

Its compactness and its robustness make it ideal for integration as well in fixed systems as in vehicles with little space and harsh environment.

Main applications are: target drone, unmanned vehicle, aircraft, terrestrial vehicles,...

80W Amplifier for Flight Test Telemetry

Main Applications

- Telemetry for aircraft, ground vehicles or fixed systems.
- Videolink or data transmission in C-band
- Surveillance mission

Main Features

- Up to 20W output power with OFDM signal
- Class AB Operation
- GaN Technology
- Temperature protection
- Remote Control & Monitoring:
 - RS485 link
 - Output power monitor
 - Output power limiter

Main Benefits

- High ruggedness
- Excellent RF shield
- Full monitoring
- Compactness
- High reliability
- High efficiency



Input/Output characteristics

Bandwidth 5090-5250MHz

Output power 20W with OFDM signal

80W Typ at Psat /25°C

Shoulder 28 dBc @ Pout = 20W

Gain > 41dB

typ 48 dB

I/O VSWR < 1.5

Spurious < -60dBc

H2 harmonics 35 dB rejection

H3 harmonics 45 dB rejection

Interfaces

RF Input / output N-female

Power supply EN3645-5 pins (M)

RS 485 Interface EN3645-6pins (M)

Primary power requirement

Supply voltage +24 VDC to +32 VDC

Power consumption 155 W @Pout=20W

60 W @ RF OFF 7 W @ Stand By

Mechanical characteristics

Dimensions 7.9"x7.9"x6.7"

(200x200x170 mm)

Weight 7 kg

C-band Solid State Power Amplifier

MODEL REFERENCE

C-band 80W SSPA

SM01042105A

Environmental conditions

Operating conditions

Shock

Temperature range (case) -15°C to +55 °C

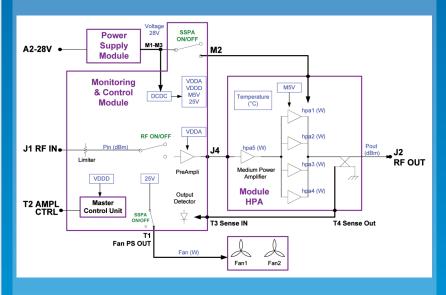
Relative humidity 35% to 95%

non condensing

Vibrations 1.68 gRMS 10Hz to 2kHz

20g - 20ms

Altitude 50000 feet



ONTACTS

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