

# C-band 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

**ZODIAC DATA SYSTEMS**

ZODIAC AIRCRAFT SYSTEMS

**ZODIAC  
AEROSPACE**



## Technical specifications

### 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

Temperature range (case)	-15°C to +55 °C
Relative humidity	35% to 95% non condensing
Vibrations	1.68 gRMS 10Hz to 2kHz
Shock	20g - 20ms
Altitude	50000 feet

