

AP2225 - Booster Amplifier

S-Band - 30W



IN-SNEC®

This 30W S-band amplifier is dedicated to reinforce the range and the margin of S-band link budget from telemetering systems.

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

It has been designed to drain out the dissipated heat to an additional radiator.

Its compactness, its lightweight and its robustness make it ideal for integration as well in fixed systems as in vehicles with little space and harsh environment. Applications are : target drone, unmanned vehicle, light aircraft, terrestrial vehicles,...

Main Functions

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

Main Features

- High ruggedness
- Excellent RF shield
- Temperature monitored
- Low dimensions
- Low weight
- Low cost

ZODIAC DATA SYSTEMS

AEROSAFETY & TECHNOLOGY
Telemetry & Telecommunications

**ZODIAC
AEROSPACE** 

Technical specifications

Input/Output characteristics

Bandwidth	2180 to 2480 MHz (by 100MHz range)
Output power	>40W @40°C* >30W @65°C* *case temperature
Input power	2W
Gain	13 dB @40°C
I/O VSWR	≤ 1.5
Spurious	≤ -60dBc
H2, H3 harmonics	≤ -30 dBc
Class AB	
EMC MIL-STD-461A	

Interfaces

RF output	SMA-female
Power supply	GLENAIR - 801-009-07NF67PA
	Pin assignment :
	P1 - Electrical mass
	P2 - +28V (in)
	P3 - +28V regulated output
	P4 - Temperature information
	P5 - Alarm
	P6 - +28V (in)
	P7 - Electrical mass

Primary power requirement

Supply voltage	+24 VDC to +32 VDC
Power consumption	≤ 180W

Mechanical characteristics

Dimensions	5.12"x4.92"x1.57" (130x125x40 mm)
Weight	<1 kg without dissipator

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MODEL REFERENCE

AP2225 SM01013684A

Environmental conditions

Standards MIL-STD-810C

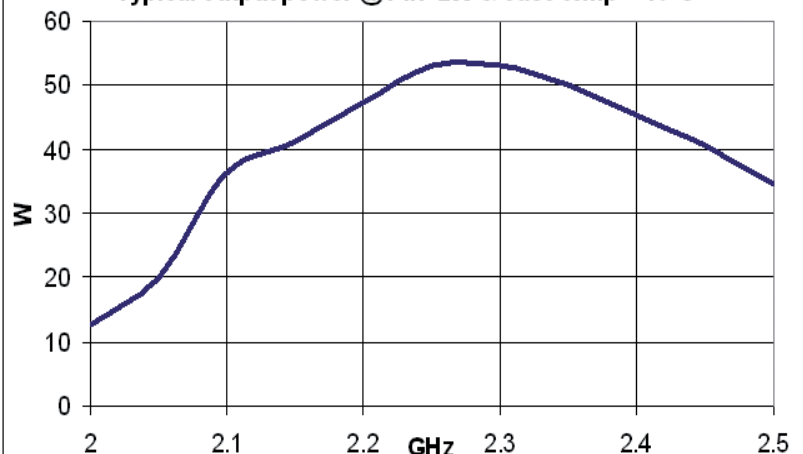
Operating conditions

Temperature range	-20°C to +40 °C
Relative humidity	35% to 95% non condensing
Vibrations	0.02 g2 eff. 10Hz to 2kHz
Acceleration	6g eff

Non operating conditions

Temperature range	-40°C to +80 °C
Relative humidity	35% to 95% non condensing

Typical output power @ Pin=2W & case temp = 40°C



ZODIAC DATA SYSTEMS

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