

APS60 - Booster Amplifier

S-Band - 40W



IN-SNEC®

This 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 2400 MHz |
| 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 |

APS60

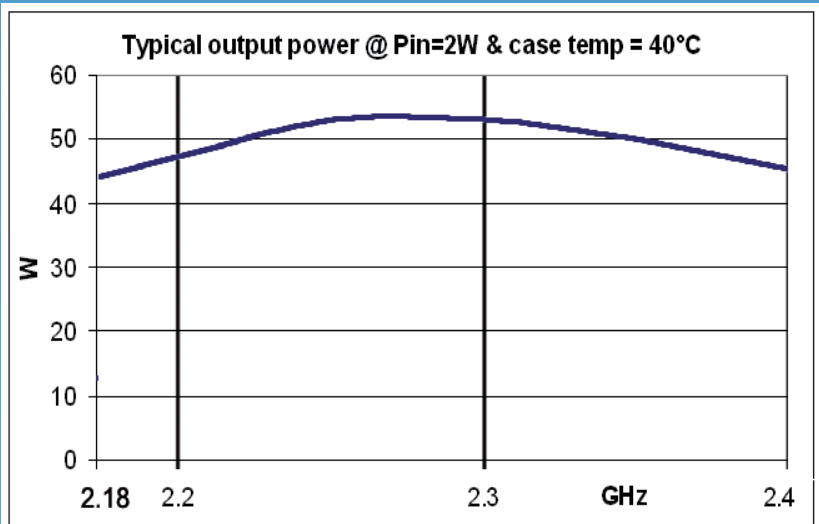
Booster Amplifier

MODEL REFERENCE

APS60 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 |



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