AW-PA-60W-S

Unidirectional GaN Power Amplifier

The **AW-PA-60W-S** series is a 60 W unidirectional GaN power amplifier module for enhancing drone / FPV data and video links. It delivers **40 dB** typical gain across a chosen narrow band from **200 MHz to 5.85 GHz**, in a compact brushed-aluminium housing with a simple DC supply and SMA connectors. Each orderable part number (**AW-PA-<f_{low}>-<f_{high}>-60-S**) is listed below — select the frequency option that matches your link.

Features

- High output power: 60 W (48 dBm)
- 40 ± 1 dB typical gain
- Unidirectional design for transmit-path link enhancement
- GaN technology — high efficiency, rugged
- SMA female connectors, 50 Ω
- Simple DC supply with 15 cm red/black power lead
- Compact brushed-aluminium module

Applications

FPV / UAV / drone data & video link enhancement; long-range transmission; signal boosting for narrowband links.

Electrical & Mechanical Specifications

Parameter	Unit	Specification
Output Power (P1dB)		60 W (48 dBm)
Gain (S21)	dB	40 ± 1
Impedance	Ω	50
RF Connector		SMA female
DC Supply	V	28 V
Supply Current	A	≤ 4.2 A
Power Lead		15 cm red / black wire
Housing		Brushed aluminium

Model Selection — Frequency Options

Model	Frequency	Output Power	Size (mm)	Weight
AW-PA-200-300-60-S	200 – 300 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-300-400-60-S	300 – 400 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-400-500-60-S	400 – 500 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-500-600-60-S	500 – 600 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-600-700-60-S	600 – 700 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-700-830-60-S	700 – 830 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-830-960-60-S	830 – 960 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-960-1100-60-S	960 – 1100 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-1160-1280-60-S	1160 – 1280 MHz	60 W	96 × 53 × 17	0.15 kg

© 2026 Ashwing. All rights reserved. Specifications subject to change without notice.

Model	Frequency	Output Power	Size (mm)	Weight
AW-PA-1220-1420-60-S	1220 – 1420 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-1450-1550-60-S	1450 – 1550 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-1550-1620-60-S	1550 – 1620 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-1650-1760-60-S	1650 – 1760 MHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-2200-2400-60-S	2.2 – 2.4 GHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-2400-2485-60-S	2.4 – 2.485 GHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-3400-3600-60-S	3.4 – 3.6 GHz	60 W	96 × 53 × 17	0.15 kg
AW-PA-4900-5050-60-S	4.9 – 5.05 GHz	60 W	132 × 53 × 17	0.21 kg
AW-PA-5150-5350-60-S	5.15 – 5.35 GHz	60 W	132 × 53 × 17	0.21 kg
AW-PA-5725-5850-60-S	5.725 – 5.85 GHz	60 W	132 × 53 × 17	0.21 kg

© 2026 Ashwing. All rights reserved. Specifications subject to change without notice.