HN2510SP1-85BZ HONGNAI 12VDC 25x25x10mm Axial Fan Datasheet

SKU: 1036896704911

Category: Axial & Centrifugal Fans

Price: **$9.50**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/hn2510sp1-85bz-hongnai-12vdc-25x25x10mm-axial-fan

Product Description

HONGNAI HN2510SP1-85BZ is a 12VDC 25x25x10mm Axial Fan optimized for localized thermal management in space-constrained electronic enclosures. This ultra-compact DC cooling solution features a high-efficiency 5-blade impeller design engineered to minimize thermal impedance while maintaining structural rigidity in miniature form factors. Utilizing a low-power motor drawing only 0.04A, the unit provides consistent airflow for sensitive components without significant parasitic power draw. The aerodynamic profile is specifically tuned to balance static pressure and acoustic output, making it an ideal replacement fan for precision instrumentation and small-scale DIY electronic modifications requiring reliable 12VDC operation.

Model Number: HN2510SP1-85BZ
Brand: HONGNAI
Product Type: Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.04 A
Power: 0.48 W
Rated Speed: 8000 RPM
Bearing Type: Sleeve Bearing
Max. Air Flow: 2.15 CFM (3.65 m^3/h)

Max. Static Pressure: 3.21 mmH_2O (31.48 Pa)
Dimensions: 25 x 25 x 10 mm
Weight: 8 g
Life Expectancy: 30,000 Hours at 25°C
Blade Count: 5 Blades
Termination: 2-Wire Lead (Red Positive, Black Negative)
Connector: 2.54 mm Pitch Terminal
Wire Length: 400 mm
Housing Material: UL94V-0 Plastic
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +75 °C

HN2510SP1-85BZ Applications

1. Micro-Electronic Enclosures: The 25mm footprint allows for integration into compact 1U sub-racks and handheld diagnostic tools where overcoming internal component density is critical.
2. 3D Printer Hotend Cooling: High static pressure-to-size ratio makes it an ideal replacement fan for cooling extruder cold-ends to prevent heat creep in DIY desktop 3D printers.
3. Network Peripheral Maintenance: Specifically suited for cooling small-form-factor (SFF) routers, switches, and NAS devices where low-vibration operation is required for optical and drive stability.

Supplemental Images