

# B5505AFHNF2100TN ELEPEAK 5VDC 55x50x5mm Laptop Blower Fan Datasheet



**Brand:** ELEPEAK

**SKU:** [856879180291](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$25.99**

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Product Page:

<https://www.equipspares.com/product/b5505afhnf2100tn-elepeak-5vdc-55x50x5mm-laptop-blower-fan>

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## Product Description

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ELEPEAK B5505AFHNF2100TN is a 5VDC 55x50x5mm Blower optimized for ultra-thin laptop thermal management and high-density heat dissipation. This centrifugal fan utilizes a DC brushless motor architecture with advanced fluid dynamic bearings to minimize thermal impedance while maintaining structural rigidity in compact chassis. Engineered specifically for the Lenovo ThinkBook 13s G4 ARB IAP, it operates at a rated 0.5A and features precise PWM speed control to balance acoustic profiles with cooling efficiency. The aerodynamic impeller design ensures high static pressure to overcome internal system resistance, making it a critical component for maintaining peak CPU and GPU performance.

Model Number: B5505AFHNF2100TN

Brand: ELEPEAK

Product Type: Centrifugal Blower Fan

Rated Voltage: 5VDC

Voltage Range: 4.5 - 5.5 VDC

Rated Current: 0.5A

Power: 2.5W

Rated Speed: 4800 RPM

Bearing Type: Fluid Dynamic Bearing

Max. Air Flow: 4.20 CFM (7.14 m<sup>3</sup>/h / 0.11 m<sup>3</sup>/min)

Max. Static Pressure: 12.50 mmH<sub>2</sub>O (122.58 Pa / 0.49 inH<sub>2</sub>O)

Dimensions: 55 x 50 x 5 mm

Weight: 22g

Life Expectancy: 40,000 hours at 40C

Speed Control: PWM (4-wire)

Termination: 4-pin micro connector

Housing Material: UL94V-0 Plastic and Aluminum

Blade Material: UL94V-0 PBT

Operating Temperature: -10C to +70C

Storage Temperature: -40C to +75C

Part Number: 5F10S14001

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

Certifications: CE, RoHS, TUV

#### B5505AFHNF2100TN Applications

1. Ultra-thin Laptop Thermal Modules: Engineered as a direct replacement fan for Lenovo ThinkBook 13s G4 series to maintain low thermal impedance in 13-inch form factors.
2. Compact Embedded Systems: Ideal for low-profile industrial NUCs where high static pressure is required to exhaust heat through restrictive fin stacks.
3. Portable Medical Devices: Provides low-vibration cooling for handheld diagnostic equipment requiring high-reliability DC brushless components.

## Supplemental Images

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