B7505AFHNF2100TN ELEPEAK 5VDC 75mm Blower Fan Datasheet

Brand: ELEPEAK

SKU: 1026061756715

Category: Axial & Centrifugal Fans

Price: **$29.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page: https://www.equipspares.com/product/b7505afhnf2100tn-elepeak-5vdc-75mm-blower-fan

Product Description

ELEPEAK B7505AFHNF2100TN is a 5VDC 75mm Blower Fan optimized for high-density thermal management in ultra-portable computing environments. Engineered with a DC brushless motor and precision-balanced impeller, this centrifugal blower addresses the critical thermal impedance found in slim chassis designs. The structural rigidity of the UL94V-0 rated housing ensures minimal vibration during high-RPM operation, maintaining acoustic integrity while delivering a rated current of 0.5A. This unit is specifically designed to overcome the static pressure resistance of dense heat pipe arrays, ensuring stable clock speeds for mobile processors through efficient heat dissipation and optimized laminar airflow.

Model Number: B7505AFHNF2100TN
Brand: ELEPEAK
Product Type: Blower Fan / Centrifugal Fan
Rated Voltage: 5 VDC
Voltage Range: 4.5 - 5.5 VDC
Rated Current: 0.5 A
Power: 2.5 W
Rated Speed: 4500 RPM
Bearing Type: Fluid Dynamic Bearing
Max. Air Flow: 6.8 CFM (11.5 m^3/h)
Max. Static Pressure: 12.4 mmH_2O (121.6 Pa)

Dimensions: 75 x 75 x 5 mm
Weight: 28 g
Life Expectancy: 40,000 Hours at 40°C
Speed Control: PWM (Pulse Width Modulation)
Feedback: Tachometer / Frequency Generator
Termination: 4-Pin Connector
Housing Material: UL94V-0 Thermoplastic
Blade Material: UL94V-0 Thermoplastic
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +75 °C
Protection Features: Locked Rotor Protection, Reverse Polarity Protection
Compatibility: Lenovo 13w Yoga, 13w Yoga Gen 2
OEM Part Numbers: 5F10Z58253, 5F10Z58253

B7505AFHNF2100TN Applications

1. Ultra-Slim Convertible Laptops: Specifically engineered as a replacement fan for Lenovo 13w Yoga Gen 2 series to maintain thermal equilibrium within constrained 2-in-1 chassis.
2. High-Impedance Mobile Heat Sinks: Optimized for pushing air through tightly packed copper fin stacks where high static pressure is required to prevent thermal throttling.
3. Compact Embedded Systems: Ideal for low-profile industrial tablets and handheld diagnostic tools requiring reliable 5V active cooling in a small footprint.

Supplemental Images