AG02005DX107301 ADDA 5VDC 20x20x10mm 0.08A Axial Fan Datasheet

Brand: ADDA

SKU: 806125238284

Category: Axial & Centrifugal Fans

Price: **$9.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/ag02005dx107301-adda-5vdc-20x20x10mm-0-08a-axial-fan

Product Description

The ADDA AG02005DX107301 is a compact DC axial fan engineered for high-density thermal management applications requiring minimal spatial footprint. Utilizing ADDA's proprietary Hypro bearing technology, this unit balances structural rigidity with extended operational service life, mitigating friction-induced thermal degradation common in small form factor motors. The 20mm frame houses a precision-wound DC motor capable of sustaining 12000 RPM, delivering focused airflow with optimized static pressure characteristics. Constructed with UL94V-0 rated thermoplastic, the impeller and frame ensure compliance with rigorous flammability standards while maintaining low thermal impedance. This specific configuration is optimized for automotive LED cooling and compact electronic assemblies.

Model Number: AG02005DX107301
Brand: ADDA
Product Type: DC Axial Fan
Rated Voltage: 5VDC
Voltage Range: 4.5 - 5.5 VDC
Rated Current: 0.08 A
Power Input: 0.40 W
Rated Speed: 12000 RPM
Bearing Type: Hypro Bearing

Max. Air Flow: 1.8 CFM (3.06 m^3/h / 0.05 m^3/min)
Max. Static Pressure: 3.5 mmH_2O (34.3 Pa / 0.14 inH_2O)
Dimensions: 20 x 20 x 10 mm
Weight: 8.0 g
Noise Level: 25.0 dB(A)
Frame Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Termination: 3-Wire / 3-Pin Connector (Default)
Wire Type: UL1061 AWG#28
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP4X
Speed Control: Tachometer Output (3rd Wire)
Application: Automotive LED Headlights, Micro-Cooling

Designed primarily for space-constrained thermal regulation, the AG02005DX107301 excels in automotive lighting systems, specifically for LED headlight heat dissipation where active cooling extends diode longevity. Beyond automotive uses, the AG02005DX107301 is frequently integrated into portable instrumentation, miniature projectors, and compact telecommunications equipment requiring reliable forced convection. Its small profile allows for seamless installation in dense PCB layouts and handheld medical devices.

Supplemental Images