AMB050015-03-CFA AMO 5VDC 50x15mm LED Cooling Fan Datasheet

SKU: 923687142597

Category: Axial & Centrifugal Fans

Price: **$16.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/amb050015-03-cfa-amo-5vdc-50x15mm-led-cooling-fan

Product Description

The AMO AMB050015-03-CFA is a specialized thermal management solution designed for automotive LED illumination systems. Engineered with a precision DC motor architecture, this unit optimizes airflow dynamics to maintain critical junction temperatures within high-lumen LED modules. The chassis exhibits high structural rigidity, ensuring stability under the vibrational stresses typical of automotive environments. Featuring a low-friction bearing system, it delivers consistent static pressure while minimizing acoustic resonance. This 5VDC cooling unit effectively reduces thermal impedance, prolonging the operational lifespan of sensitive semiconductor components in Mazda lighting assemblies.

Model Number: AMB050015-03-CFA
Brand: AMO
Product Type: DC Cooling Fan
Rated Voltage: 5VDC
Rated Current: 0.11 A
Power Consumption: 0.55 W
Dimensions: 50mm x 50mm x 15mm
Termination: 3-Wire Lead
Connector Type: White Header Plug
Application: Automotive LED Headlight Cooling

Bearing Type: Precision Bearing System
Speed Control: 3-Wire Signal (Tachometer/Sensor)
Housing Material: Thermoplastic
Mounting Orientation: Any
Operating Voltage Range: 4.5 - 5.5 VDC (Estimated)
Ingress Protection: Standard IP Rating for Automotive Interiors

The AMB050015-03-CFA is primarily deployed within automotive lighting systems, specifically serving as the active cooling component for Mazda series LED headlights. Its compact form factor allows for integration into tight housing assemblies found in modern vehicle front-end modules. Beyond automotive lighting, the AMB050015-03-CFA is suitable for compact electronics requiring 5V active cooling, such as portable projectors, small-scale telecommunications equipment, and embedded IoT devices where thermal regulation is essential for reliability.

Supplemental Images