04520GA-12N-AT-D2 NMB 12VDC 0.24A 45x20mm Blower Fan Datasheet

Brand: NMB

SKU: 987779862154

Category: Axial & Centrifugal Fans

Price: **$18.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/04520ga-12n-at-d2-nmb-12vdc-0-24a-45x20mm-blower-fan

Product Description

The NMB 04520GA-12N-AT-D2 is a high-efficiency Centrifugal Blower Fan engineered for applications requiring concentrated airflow and elevated static pressure within a compact footprint. Utilizing advanced DC brushless motor technology and a precision-machined dual ball bearing architecture, this unit ensures minimal friction and extended operational longevity under continuous loads. The aerodynamic scroll housing is designed to optimize air intake and exhaust velocity, significantly reducing thermal impedance in compact electronic enclosures. Its structural rigidity and robust construction make it suitable for demanding industrial environments where consistent thermal management is critical for component reliability.

Model Number: 04520GA-12N-AT-D2
Brand: NMB (MinebeaMitsumi)
Product Type: Centrifugal Blower Fan
Rated Voltage: 12 VDC
Voltage Range: 6.0 - 13.8 VDC
Rated Current: 0.24 A
Input Power: 2.88 W
Rated Speed: 6500 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 4.94 CFM (8.4 m^3/h / 0.14 m^3/min)

Max. Static Pressure: 14.5 mmH_2O (142.2 Pa / 0.57 inH_2O)
Dimensions: 45mm x 45mm x 20mm
Weight: 30 g
Life Expectancy: 60,000 Hours at 40°C
Noise Level: 36.0 dB(A)
Termination: 3-Wire (Lead Wire)
Signal Output: Tachometer (Speed Sensor)
Housing Material: Plastic (UL94V-0)
Impeller Material: Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Motor Protection: Locked Rotor Protection; Polarity Protection
Insulation Resistance: 10M Ohm at 500VDC
Dielectric Strength: 700VAC for 1 Second

The 04520GA-12N-AT-D2 is specifically designed for integration into compact electronic assemblies where space is limited but high static pressure is required to overcome system resistance. Common deployment scenarios include cooling localized hotspots in rack-mount servers, thermal management in telecommunications equipment, and forced air circulation in medical diagnostic devices. Additionally, the 04520GA-12N-AT-D2 is frequently utilized in industrial automation setups and projector cooling systems, ensuring critical components remain within safe operating temperature ranges.

Supplemental Images


NMB
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MODEL
04520GA-12N-AT
12V⎓DC 0.24A
Minebea Co.,Ltd.
MADE IN CHINA
D2
+:RED,-:BLACK