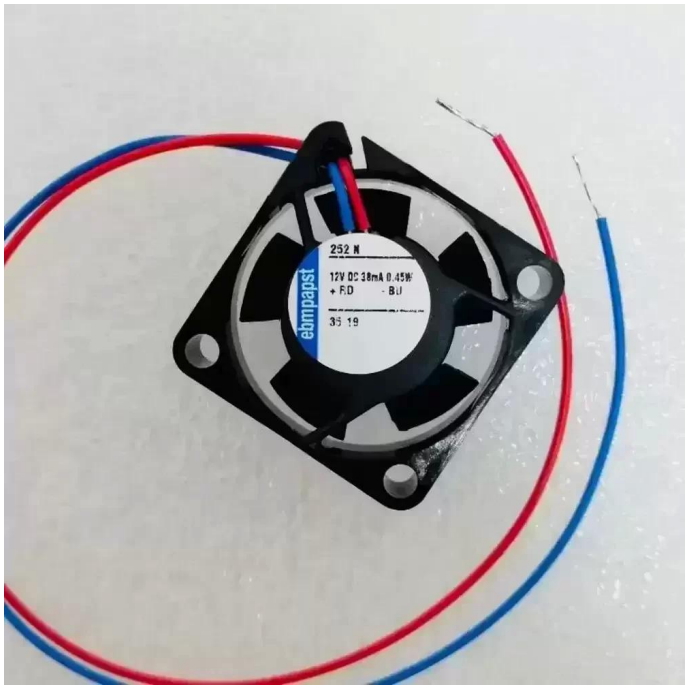
252N ebmpapst 12VDC 25x25x8mm Compact Axial Fan Datasheet



Brand: ebmpapst

SKU: 898630416598

Category: Axial & Centrifugal Fans

Price: **$51.99**

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Product Page:
https://www.equipspares.com/product/252n-ebmpapst-12vdc-25x25x8mm-compact-axial-fan

Product Description

The ebmpapst 252N is a compact DC axial fan engineered for applications requiring minimal spatial footprint and optimized thermal management. Utilizing advanced Sintec sleeve bearing architecture, this unit ensures low-noise operation while maintaining structural rigidity through its fiberglass-reinforced PBT housing. The 12VDC motor integrates electronic commutation with reverse polarity protection, delivering consistent airflow performance with reduced electromagnetic interference. Its aerodynamic impeller design minimizes turbulence, resulting in a favorable thermal impedance profile suitable for precision electronics. The 252N operates efficiently at 0.45W, balancing power consumption with effective cooling capabilities in restricted environments.

Model Number: 252N
Brand: ebmpapst
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 8.0 - 13.5 VDC
Rated Current: 0.038 A (38 mA)
Power Consumption: 0.45 W
Rated Speed: 11500 RPM
Bearing Type: Sintec Sleeve Bearing
Max. Air Flow: 2.35 CFM (4.0 m^3/h / 0.06 m^3/min)

Max. Static Pressure: 2.55 mmH_2O (25.0 Pa / 0.10 inH_2O)
Dimensions: 25 x 25 x 8 mm
Weight: 0.005 kg (5 g)
Life Expectancy: 50,000 Hours @ 20°C
Termination: 2 Lead Wires (AWG 28, TR 64)
Housing Material: Fiberglass-reinforced PBT plastic (UL94V-0)
Impeller Material: Fiberglass-reinforced PA plastic (UL94V-0)
Operating Temperature: -20°C to +70°C
Storage Temperature: -40°C to +80°C
Noise Level: 15 dB(A)
Motor Protection: Impedance Protected, Reverse Polarity Protection
Direction of Rotation: Counter-clockwise (viewed toward rotor)
Airflow Direction: Air exhaust over struts
Approvals: VDE, CSA, UL, CE

Designed for high-density electronic assemblies, the 252N provides critical cooling for localized hotspots in miniaturized equipment. Common deployment scenarios include sensor array ventilation, chipset cooling in embedded systems, and thermal regulation within medical diagnostic devices. The compact form factor of the 252N allows for seamless integration into portable instrumentation and telecommunications modules where space is at a premium. By maintaining optimal operating temperatures, the 252N ensures the reliability and longevity of sensitive components in continuous-duty industrial environments.

Supplemental Images