

FAD1-04010CBMW11 Qualtek 12VDC 40x40x10mm Axial Fan Datasheet



Brand: Qualtek

SKU: 1012403759042

Category: Axial & Centrifugal Fans

Price: **\$3.99**

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Product Description

The Qualtek FAD1-04010CBMW11 is a precision-engineered DC Axial Fan designed for applications requiring a balance between airflow efficiency and compact spatial integration. Utilizing advanced Brushless DC (BLDC) motor technology, this unit features a robust 2 Ball Bearing architecture which significantly reduces frictional coefficients and enhances rotational stability, resulting in an extended operational lifespan compared to sleeve bearing alternatives. The impeller and frame are constructed from high-grade PBT thermoplastic, rated UL94V-0 for flame retardancy, ensuring structural rigidity and thermal resilience under continuous load. Optimized for thermal impedance management, the aerodynamic blade profile delivers consistent static pressure, making it an ideal solution for dense electronic enclosures.

Model Number: FAD1-04010CBMW11

Brand: Qualtek Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.08 A

Input Power: 0.96 W

Rated Speed: 5800 RPM \pm 10%

Bearing Type: 2 Ball Bearing

Max. Air Flow: 6.20 CFM (10.53 m³/h / 0.17 m³/min)
Max. Static Pressure: 2.79 mmH₂O (27.39 Pa / 0.11 inH₂O)
Noise Level: 26.0 dB(A)
Dimensions: 40 x 40 x 10 mm
Weight: 20 g (0.044 lbs)
Life Expectancy: 70,000 Hours @ 40°C
Frame Material: PBT Thermoplastic (UL94V-0)
Impeller Material: PBT Thermoplastic (UL94V-0)
Termination: 2 Wire Leads (UL 1007 AWG#26)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Insulation Resistance: 10M Ohm at 500 VDC
Dielectric Strength: 500 VAC for 1 Minute
Safety Certifications: UL, cUL, TUV, CE, RoHS Compliant
Polarity Protection: Yes
Rotation: Clockwise (Looking at Rotor)

The FAD1-04010CBMW11 is engineered for critical thermal management in compact electronic assemblies where reliability is paramount. Common deployment scenarios include cooling chipsets in server racks, ventilation for small form-factor amplifiers, and thermal regulation in precision medical instrumentation. The compact 40mm footprint allows the FAD1-04010CBMW11 to fit seamlessly into tight chassis spaces found in telecommunications equipment and industrial automation controllers, ensuring components remain within safe operating temperature ranges.

Supplemental Images

