

AFC0612DB-9J10R Delta 12VDC 60x60x15mm PWM Axial Fan Datasheet



Brand: Delta

SKU: [989292158528](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

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Product Page:

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Product Description

The Delta AFC0612DB-9J10R is a precision-engineered DC axial fan designed for high-density thermal management applications requiring active speed modulation. Utilizing advanced Pulse Width Modulation (PWM) technology, this unit allows for dynamic RPM adjustment based on real-time thermal loads, optimizing the balance between acoustic signature and cooling efficiency. The fan features a robust dual ball bearing system, ensuring exceptional longevity and structural rigidity even under continuous operation or varying mounting orientations. Its aerodynamic impeller design minimizes turbulence while maximizing static pressure, making it an ideal solution for overcoming high thermal impedance in compact electronic enclosures. The 4-wire interface provides precise tachometer feedback and control integration.

Model Number: AFC0612DB-9J10R

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Rated Current: 0.45 A

Power Input: 5.40 W

Rated Speed: 6800 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 28.65 CFM (48.68 m³/h / 0.81 m³/min)
Max. Static Pressure: 8.54 mmH₂O (83.75 Pa / 0.34 inH₂O)
Dimensions: 60 x 60 x 15 mm
Weight: 44 g
Life Expectancy: 70,000 Hours at 40°C
Speed Control: PWM (Pulse Width Modulation)
Signal Output: 4-Wire (Red: +, Black: -, Blue: PWM, Yellow: Tach/FG)
Noise Level: 44.5 dB-A
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PBT Plastic (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +75°C
Ingress Protection: IP5X
Safety Certifications: UL, cUL, TUV, CE
Protection: Locked Rotor Protection, Polarity Protection

The AFC0612DB-9J10R is engineered for critical cooling tasks in space-constrained environments such as 1U server racks, network switches, and industrial automation controllers. Its slim 15mm profile allows the AFC0612DB-9J10R to fit seamlessly into compact chassis where standard 25mm fans cannot be accommodated, providing essential airflow to CPU heatsinks and power supply units. Additionally, this model is frequently utilized in medical instrumentation and telecommunications equipment where reliable, long-term thermal dissipation is mandatory for system stability.

Supplemental Images

