

PVA080G12Q-P84-CE Foxconn 12VDC 80x80x25mm PWM Axial Fan Datasheet



Brand: Foxconn

SKU: 986704251805

Category: Axial & Centrifugal Fans

Price: \$19.99

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Product Description

The Foxconn PVA080G12Q-P84-CE is a high-performance Axial Fan engineered for demanding thermal management applications requiring substantial airflow and static pressure. This unit utilizes a robust 12VDC motor architecture optimized for efficiency, drawing 0.65A to drive the impeller at high rotational speeds for rapid heat dissipation. Constructed with a durable thermoplastic frame and impeller, the fan ensures structural rigidity under high-velocity operation while minimizing vibration-induced resonance. The integration of a 4-wire PWM interface allows for precise speed modulation, enabling dynamic thermal control based on real-time system load. Its advanced hydraulic bearing system reduces internal friction and thermal impedance, significantly extending the operational lifespan and reliability compared to standard sleeve bearing alternatives.

Model Number: PVA080G12Q-P84-CE

Brand: Foxconn

Product Type: Axial Fan

Rated Voltage: 12VDC

Voltage Range: 10.2 - 13.8 VDC

Rated Current: 0.65 A

Power Input: 7.8 W

Rated Speed: 4800 RPM

Bearing Type: Hydraulic Bearing

Max. Air Flow: 58.5 CFM (99.4 m³/h / 1.66 m³/min)

Max. Static Pressure: 7.2 mmH₂O (70.6 Pa / 0.28 inH₂O)

Dimensions: 80x80x25mm

Weight: 95 g

Life Expectancy: 50,000 Hours @ 40°C

Speed Control: 4-Wire PWM

Termination: 4-Pin Connector with Lead Wires

Wire Configuration: Red (+), Black (-), Yellow (Tach), Blue (PWM)

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Noise Level: 42.5 dBA

Certifications: CE, UL, TUV

The PVA080G12Q-P84-CE is specifically designed for high-density electronic environments such as server racks, chassis cooling, and industrial automation enclosures. Its high-static pressure profile makes the PVA080G12Q-P84-CE ideal for forcing air through restricted spaces found in power supply units (PSUs) and dense heatsink arrays. Additionally, this model is frequently utilized in telecommunications equipment, CNC machinery, and workstation cooling solutions where reliable, continuous thermal evacuation is critical to prevent component throttling or failure.

Supplemental Images

