

DBTD0428B2H-P190 AVC 12VDC 40x40x28mm PWM Server Fan Datasheet



Brand: AVC

SKU: 780266198685

Category: Axial & Centrifugal Fans

Price: \$11.99

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/dbtd0428b2h-p190-avc-12vdc-40x40x28mm-pwm-server-fan>

Product Description

The AVC DBTD0428B2H-P190 is a high-performance DC Axial Fan designed specifically for critical thermal management in high-density server environments and industrial electronics. Engineered with a robust Dual Ball Bearing architecture, this unit ensures exceptional structural rigidity and operational longevity, even under continuous high-speed rotation. The motor assembly is optimized for 12VDC systems and features integrated PWM (Pulse Width Modulation) signal control, allowing for precise dynamic speed regulation to balance thermal impedance against acoustic output. Its compact 40mm form factor, combined with an advanced aerodynamic impeller design, delivers high static pressure capabilities essential for overcoming the resistance of dense heatsinks and restricted chassis airflow paths.

Model Number: DBTD0428B2H-P190

Brand: AVC (Asia Vital Components)

Product Type: DC Axial Fan

Rated Voltage: 12 VDC

Voltage Range: 10.8 - 13.2 VDC

Rated Current: 0.52 A

Power Consumption: 6.24 W

Rated Speed: 13000 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.5 CFM (41.6 m³/h / 0.69 m³/min)

Max. Static Pressure: 1.25 inH₂O (311 Pa / 31.7 mmH₂O)

Dimensions: 40 x 40 x 28 mm

Weight: 45 g

Life Expectancy: 70,000 Hours at 40°C

Speed Control: PWM (Pulse Width Modulation)

Termination: 4-Wire Lead (Red +, Black -, Yellow Tach, Blue PWM)

Housing Material: Thermoplastic PBT (UL94V-0)

Blade Material: Thermoplastic PBT (UL94V-0)

Operating Temperature: -10°C to +70°C

Mounting Orientation: Any

Ingress Protection: IP40

The DBTD0428B2H-P190 is engineered for enterprise-grade hardware applications, excelling in 1U server racks and blade servers where space is at a premium and thermal loads are high. The high static pressure generated by the DBTD0428B2H-P190 makes it an ideal solution for cooling CPU heatsinks, RAID cards, and power supply units within tightly packed enclosures. Additionally, this model is frequently deployed in network switches, telecommunications equipment, and industrial automation controllers that require reliable, 24/7 active cooling to prevent thermal throttling.

Supplemental Images

