BP401012H Bi-Sonic 12VDC 40x40x10mm 2-Wire Axial Fan Datasheet

Brand: Bi-Sonic

SKU: 980993210344

Category: Axial & Centrifugal Fans

Price: **$14.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/bp401012h-bi-sonic-12vdc-40x40x10mm-2-wire-axial-fan

Product Description

The Bi-Sonic BP401012H is a compact DC axial fan engineered for precision thermal management in space-constrained electronic assemblies. Utilizing a robust dual ball bearing architecture, this unit ensures minimized friction coefficients and extended operational longevity under continuous load. The aerodynamic impeller design optimizes airflow delivery while maintaining low acoustic resonance, effectively reducing thermal impedance within high-density enclosures. Constructed with high-grade thermoplastic materials, the frame offers superior structural rigidity and resistance to environmental stress, making it an ideal solution for critical cooling applications requiring reliable heat dissipation.

Model Number: BP401012H
Brand: Bi-Sonic
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 10.2 - 13.8 VDC
Rated Current: 0.13 A
Power: 1.56 W
Rated Speed: 6000 RPM
Bearing Type: Dual Ball Bearing
Max. Air Flow: 7.0 CFM (11.89 m^3/h / 0.19 m^3/min)

Max. Static Pressure: 4.06 mmH_2O (39.8 Pa / 0.16 inH_2O)
Dimensions: 40x40x10mm
Weight: 20 g
Life Expectancy: 50,000 Hours @ 40°C
Noise Level: 28.0 dBA
Housing Material: PBT (UL94V-0)
Blade Material: PBT (UL94V-0)
Termination: 2-Wire Lead
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Ingress Protection: IP20
Safety Certifications: CE, UL, TUV

The BP401012H is specifically calibrated for integration into compact electronic systems where efficient heat extraction is paramount. Common deployment scenarios include active cooling for computer chipsets, northbridge heatsinks, and small form-factor power supply units. Additionally, the BP401012H serves as a critical component in industrial automation controllers and telecommunications equipment, ensuring stable operating temperatures for sensitive semiconductor components in 24/7 operational environments.

Supplemental Images