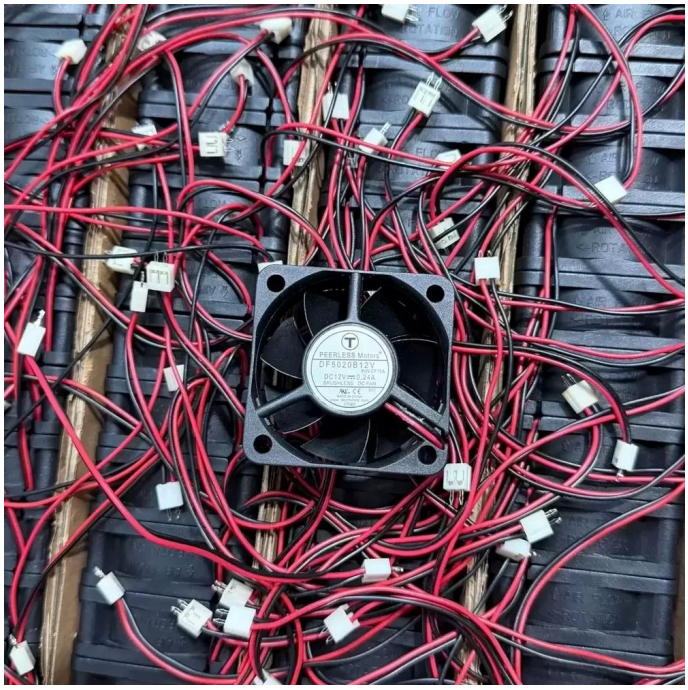
DF5020B12V PEERLESS Motors 12VDC 50x50x20mm 0.24A Axial Fan Datasheet



SKU: 989532242604

Category: Axial & Centrifugal Fans

Price: **$3.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/df5020b12v-peerless-motors-12vdc-50x50x20mm-0-24a-axial-fan

Product Description

The PEERLESS Motors DF5020B12V is a DC Axial Fan engineered for precision thermal management in compact industrial enclosures. Utilizing a robust Double Ball Bearing architecture, this unit ensures minimized friction coefficients and extended operational longevity under continuous duty cycles. The aerodynamic impeller design optimizes airflow delivery while maintaining structural rigidity, effectively reducing thermal impedance within high-density electronic assemblies. This 12VDC component is specifically calibrated for reliable performance in demanding environments requiring consistent static pressure and volumetric efficiency.

Model Number: DF5020B12V
Brand: PEERLESS Motors
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 7.0 - 13.8 VDC
Rated Current: 0.24 A
Power Consumption: 2.88 W
Rated Speed: 7200 RPM
Bearing Type: Double Ball Bearing
Max. Air Flow: 18.5 CFM (31.4 m^3/h / 0.52 m^3/min)
Max. Static Pressure: 5.8 mmH_2O (56.8 Pa / 0.23 inH_2O)

Dimensions: 50 x 50 x 20 mm
Weight: 28 g
Life Expectancy: 50,000 Hours @ 40°C
Termination: 2-Wire Lead
Housing Material: PBT (UL94V-0)
Impeller Material: PBT (UL94V-0)
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Noise Level: 34.5 dB(A)
Ingress Protection: IP40
Mounting Orientation: Any

The DF5020B12V is frequently integrated into compact server racks and telecommunications equipment where space constraints demand high-efficiency cooling solutions. Its compact form factor allows the DF5020B12V to be deployed in CNC control modules, medical diagnostic devices, and network switchgear, ensuring critical components remain within safe operating temperature ranges during prolonged operation.

Supplemental Images