

DC Brushless Cooling Fan



Structure and Form

Structure : Axial Motor Fan
Housing : Black PBT UL94V-0
Blade : Black PBT UL94V-0
Bearing : Fluid Bearing
Lead : 26#AWG/L=150mm

Rated and Operating Condition

Rated Voltage (V DC) : 12V DC
Rated current (A) : 0.18A ±0.03A
Startup Voltage (V DC) : 7V (On/Off)
Rated Input Power (W) : 3 W ±10%
Operating Voltage (V DC) : 10.2 to 13.8V
Operating Temperature (°C) : -10°C to +70°C
Storage Temperature (°C) : -40°C to +80°C
Speed (RPM) : 4500 RPM ±10%

Standard Environmental Condition

Environment Temperature : 5°C to 35°C
Relative Humidity : 45% to 85%

Air Flow-Air Pressure Characteristic

Applicable Conditions: Shall be applied in the state when the standard, environmental conditions and voltage are fixed.

Item	Conditions	Standard
Max. Air Flow	Air pressure = 0	18.6 CFM
Max. Air Pressure	Air flow = 0	3.14mm H ₂ O

Performance

Applicable Conditions: Shall be applied under the standard environmental condition and rated conditions.

Item	Conditions	Standard
Noise	Shall be measure in around isolated room of background noise 20DB or Less, in a distance of 1m from intake direction	27.7dBa
Insulation Resistance	When test Voltage of DC 250V is impressed between terminal (+) and housing	Min 10mΩ
Dielectrics Withstand Voltage	When voltage of AC 500V is impressed between terminal (+) and housing	Shall be free of abnormality

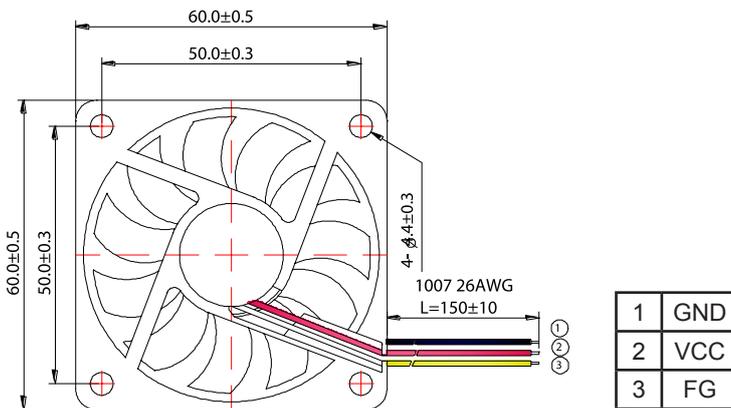
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Special Test

Item	Conditions	Standard
Vibration Resistance	5-3Hz, 0.04mm peak to peak amplitude, 30-500Hz, 2g peak amplitude, for minutes to all three axis	It shall be satisfy the specified performance standards
Shock Resistance	60g 11 milliseconds (1/2sine), two time to all three axis	It shall be satisfy the specified performance standards
Durability	Expected life endurance time until the revolution drops by 30% from the initial value. When continuously run under standard environmental conditions and rated conditions	30,000 hours up (at 25°C/ relative humidity 45 - 85%)
Rotor Resistance	The rotor drive shall be Restricted for 72 hours in the state where condition is made in the range of operating temperature and operating voltage range	Don't keep rotor resistance It will damage

Dimensions



Dimensions : Millimetres

Part Number Table

Description	Part Number
DC Cooling Fan, 0.18A/12V DC, Bearing Hydro	MC002103

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