

# DC Axial Fan

## 50mm x 50mm x 15mm



**RoHS  
Compliant**



### Electrical Characteristic

Rated Voltage	12V DC
Rated Current	72mA / Max. 83mA
Rated Power Consumption	0.87W / Max. 1W
Safety Power Consumption	0.92W
Operating Voltage Range	4.5 to 13.8V DC
Starting Voltage	4.5V DC (25°C Power ON/OFF)
Operating Temperature Range	-10°C to +70°C
Storage Temperature Range	-40°C to +70°C

### Mechanical Characteristics

Motor Design	Single Phase, 4-Pole Bushless DC Motor
Bearing System	Vapo Bearing
Power Connection Type	#26AWG - 2 Lead Wires; Red (+), Black (-)
Frame Material	Thermoplastic PBT of UL 94V-0
Fan Blade Material	Thermoplastic PBT of UL 94V-0
Rotation Direction	Counter-Clockwise (Viewed from Front of Fan Blade)
Mounting Holes	4.3mm Diameter, 4 Holes
Weight	33g

### Performance Characteristics

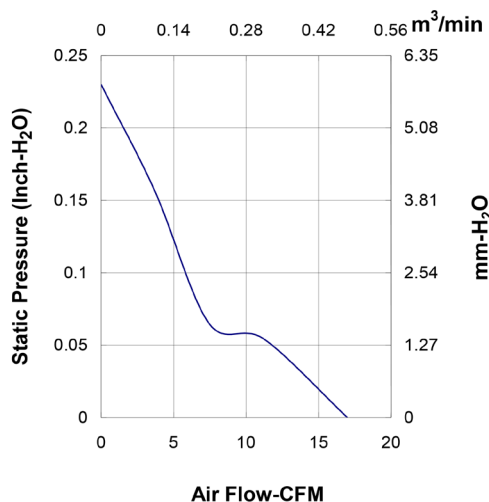
Rated Speed	6100RPM $\pm 15\%$ @ Rated Voltage
Air Flow	17.0CFM
Static Pressure	0.23 Inch-H <sub>2</sub> O
Acoustic Noise	33.0dB (A)
Insulation Class	UL Class A
Insulation Resistance	10M $\Omega$ @ 500V DC between internal Stator & lead Wire (+)
Dielectric Strength	Applied AC 500V for one minute or AC 600V for 2 Seconds between housing & lead Wire (+)
Life Expectancy	60,000 Hours @ 40°C, 65% Humidity, 90% CL.
Protection	Automatic Restart Note: In a situation where the fan is locked by an external force while The electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is release. Polarity Protection



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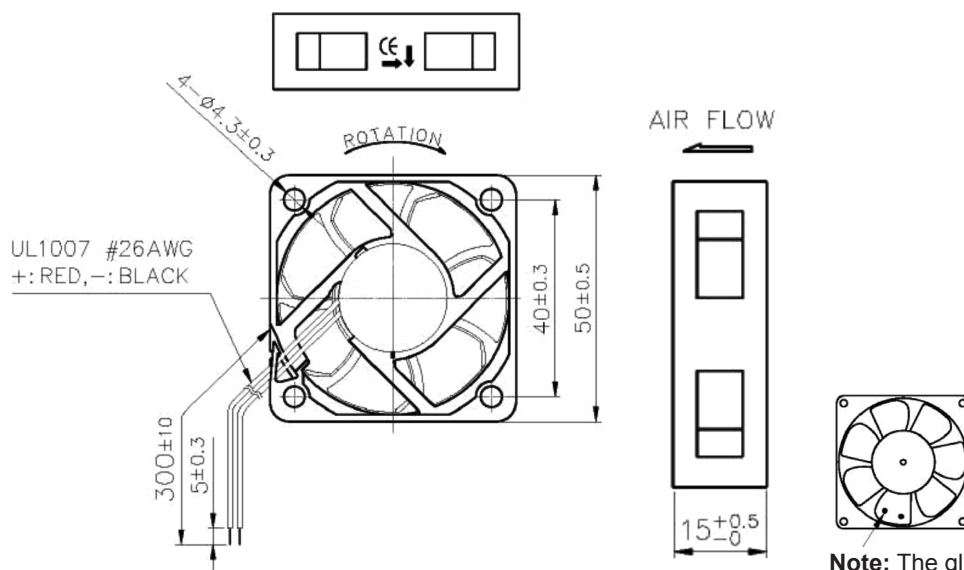
### Performance Curves



### Dimensions

Screw Type (Pan head)	Torque	Screw Specification	
		Size	Standard
Machine screw	3 to 4 Kgf-cm	M4.0	JIS B1111-1974
Self-tapping screw	5 to 6 Kgf-cm	Ø5.0	JIS B1122 Type 2

### Drawing



Dimensions : Millimetres

### Part Number Table

Description	Part Number
DC Axial Fan, 50mm, Vapo, 12V, 17CFM, 33dB	MC002697