

Micro Slim - 6 mm Deep



Features:

- 25, 30 and 40 mm micro slim fans
- Ideally for precision cooling or compact equipment
- Patented single-coil brushless 8 pole motor
- Locked rotor protection
- · Precision ball bearings

Characteristics:

Input Power, Current and Speed

Motor Design : Patented single-coil DC brushless 8 pole motor design

Insulation Resistance : More than 500 M Ω between internal stator and lead wire (+) measured at 500 V dc

Dielectric Strength : Applied 500 V ac for one minute or 600 V ac for 2 seconds between housing and lead wire (+)

Noise Level : Measured in a semi-anechoic chamber with background noise level below 15 db (A)

The fan is running in free air with the microphone at a distance of one meter from the fan intake : Measured after continuous 10 minutes operation at rated voltage in clean air, and at ambient

temperature of 25°C

Tolerance : ±15% on rated power and current

Air Performance : Measured by a double chamber. The values are recorded when the fan speed has stabilized at

rated voltage

Specifications:

Rated Voltage : 5 V dc
Operating Voltage Range : 3 to 6 V dc

Starting Voltage : 3 V dc (25°C power on / off)

Direction of Rotation : Counter-clockwise viewed from front of fan blade

Operating Temperature : -10 to +70°C
Storage Temperature : -40 to +70°C
Bearing System : Vapo bearing system

Vibration : Vibration of acceleration 1.5 G and frequency 5 to 50 to 5 Hz is applied in all 3 directions (X, Y,

Z), in cycles of 1 minute each, for a total vibration time of 30 minutes

Material:

Frame : Thermoplastic PBT Impeller : Thermoplastic PBT Bobbin : Thermoplastic PBT Lead Wire : 28 AWG, +Red, -Black

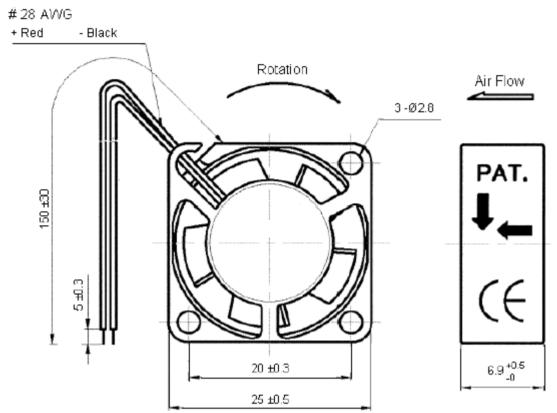




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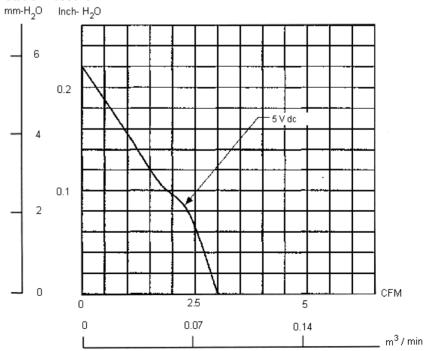


Dimensions: Millimetres

Air flow direction Best mounting direction : Toward label side : Any orientation

Performance Curves

Static Pressure



Specifications:

Rated Speed : 13,000 rpm ±20%
Air Delivery : 3 CFM
Static Pressure : 0.22 inch-H₂O
Rated Current : 0.11 A
Rated Power : 0.6 watts
Noise Level : 31 db (A)

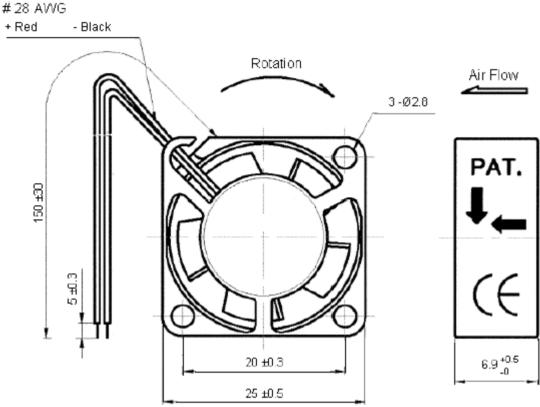
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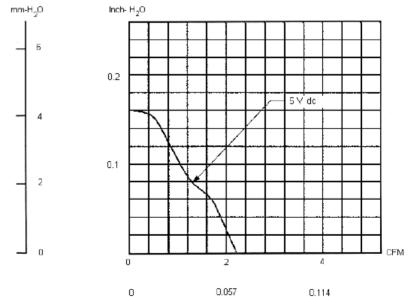


Dimensions: Millimetres

Air flow direction : Toward label side Best mounting direction : Any orientation

Performance Curves

Static Pressure



Specifications:

Rated Speed : 10,000 rpm ±30%
Air Delivery : 2.2 CFM
Static Pressure : 0.16 inch-H₂O
Rated Current : 0.08 A
Rated Power : 0.4 watts
Noise Level : 23 db (A)

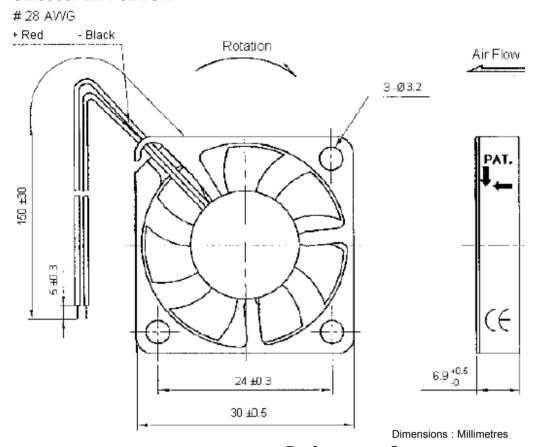
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 m^3 / min



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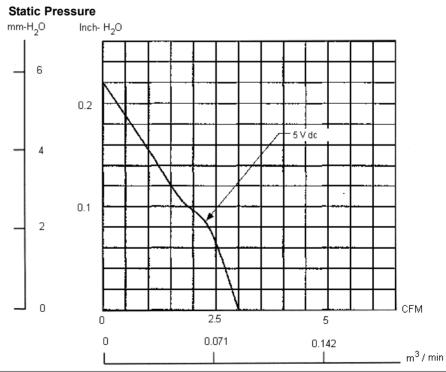


Performance Curves

Air flow direction : Toward label side Best mounting direction : Any orientation

Specifications:

Rated Speed : 9,500 rpm ±30%
Air Delivery : 4.9 CFM
Static Pressure : 0.14 inch-H₂O
Rated Current : 0.13 A
Rated Power : 0.7 watts
Noise Level : 28 db (A)



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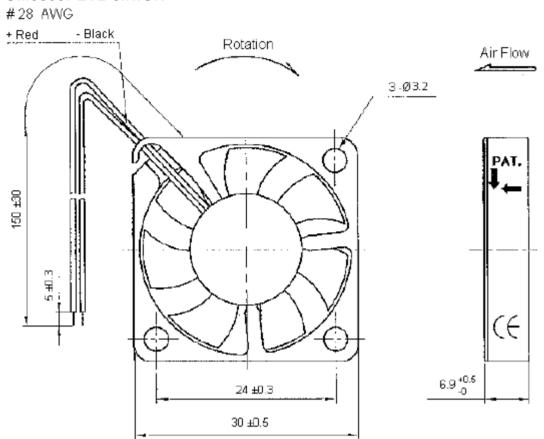


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Dimensions : Millimetres

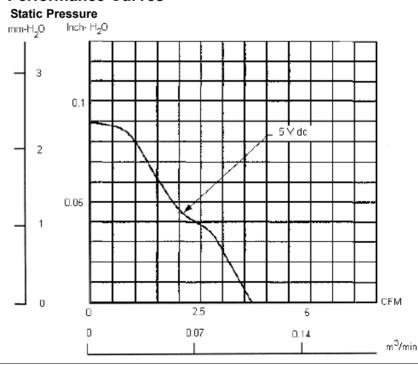
Air flow direction
Best mounting direction

: Toward label side : Any orientation

Specifications:

Rated Speed : 7,500 rpm ±30%
Air Delivery : 3.7 CFM
Static Pressure : 0.09 inch-H₂O
Rated Current : 0.08 A
Rated Power : 0.4 watts
Noise Level : 24 db (A)

Performance Curves



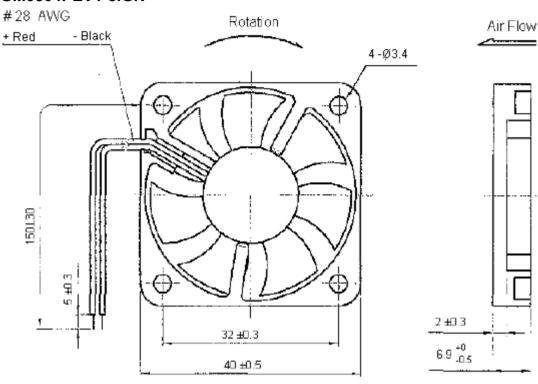
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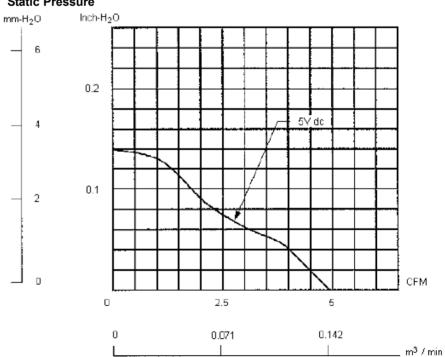


Air flow direction Best mounting direction : Toward label side : Any orientation

Dimensions : Millimetres

Performance Curves

Static Pressure



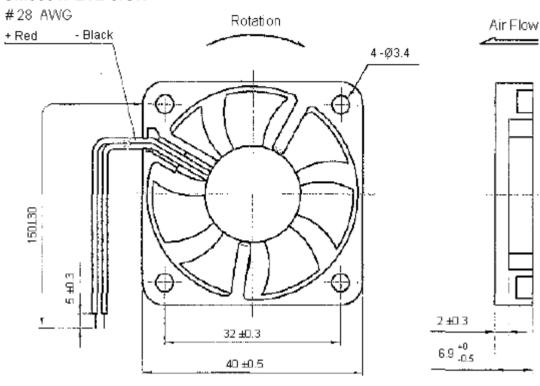
Specifications:

Rated Speed : 7.000 rpm ±30% Air Delivery : 5.9 CFM Static Pressure : 0.1 inch-H₂O Rated Current : 0.09 A Rated Power : 0.5 watts Noise Level : 32 db (A)





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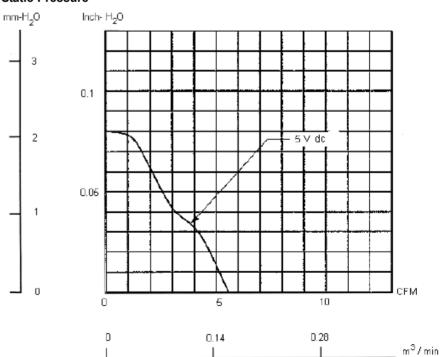
Air flow direction
Best mounting direction

: Toward label side : Any orientation

Dimensions : Millimetres

Performance Curves

Static Pressure



Specifications:

Rated Speed : 6,000 rpm ±30%
Air Delivery : 5.5 CFM
Static Pressure : 0.08 inch-H₂O
Rated Current : 0.07 A
Rated Power : 0.4 watts
Noise Level : 26 db (A)

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Notes

Safety

- 1. There is no thermo-protector installed in this product, such as thermo-fuse, or current-fuse, or thermo-protector. There may be smoking, ignition, or electric shock by insulation degradation in cases of motor lock, motor lead short circuit, overload, over voltage, and / or other failure. Please add the protection circuit to your product.
- 2. There is no reverse-connection prevention diode of VDC (+) and GND (-) installed in this product. Therefore, if VDC (+) and GND (-) are reverse connected, it may cause smoking, ignition, and / or destruction, although these conditions may not manifest immediately. We recommended that a protection device be installed on your product when there is possibility of reverse connection.
- 3. Please verify that this product is being installed and used in compliance with all safety standards.
- 4. Please handle and install this product carefully. Hitting and dropping this product this may cause damage.
- 5. Please donot damage this product including coil and lead wires while installing or wiring. There may be smoking or fire.

Other

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock / drop / vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2. Fan holders or bearings may be damaged if touched with fingers or other objects. Additionally, static electricity (ESD) may cause damage the internal circuits. Please handle this product carefully.
- 3. Please avoid operating this product in poisonous material (organic silicon, cyanogens, formalin, phenol, etc.) or corrosive gas environments (H2S, SO2, NO2, Cl2, etc).
- 4. Improper mounting may cause harsh resonance, vibration, and noise. Please mount securely.
- 5. Safety is a top priority. Please furnish guard accessories to prevent injury to personnel.
- 6. Unless otherwise noted, all tests are conducted at 25°C ambient temperature and 65% relative humidity.
- 7. Always ensure that fans are stored according to the storage temperatures specified. Donot store in a high humidity environment. If the fans are stored for more than 6 months, with functional testing recommended before use.
- 8. This reserves the right to use components with equivalent specifications from multiple sources.

Specification Table

Type	Voltage (V dc)	Power (Watts)	Air Flow		Noise	Dimension			Part Number
			cu ft / min	Itrs / sec	(dBA at 1 m)	Н	W	D	
Standard, 25 mm	5	0.6	3	0.76	31	25	25	6.9	GM0502PEV1-8.N.GN
Low Noise, 25 mm		0.4	2.2	0.57	23				GM0502PEV2-8.N.GN
Standard, 30 mm		0.7	4.9	1.43	28	30	30		GM0503PEV1-8.N.GN
Low Noise, 30 mm		0.4	3.7	1.15	24				GM0503PEV2-8.N.GN
Standard, 40 mm		0.5	5.9	2.6	32	40	40		GM0504PEV1-8.GN
Low Noise, 40 mm		0.4	5.5	2.07	6				GM0504PEV2-8.GN

Dimensions: Millimetres

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