

Miniature AC Cooling Fan 220V 18x18x4mm

This miniature AC fan provides localized cooling for electronic components and machinery. Its compact 18x18x4mm size allows for efficient cooling in tight spaces.



ADDITIONAL IMAGES



Product Overview



The ultra-compact form factor is ideal for space-constrained industrial applications. Various terminal and lead wire configurations available to suit different PCB and power interfaces.

High-Performance Miniature AC Cooling Fan

This 18x18x4mm miniature cooling fan is engineered for precision instruments, drones, and compact electronic enclosures requiring efficient thermal management. Featuring a durable die-cast aluminum housing and UL 94V-0 rated glass fiber reinforced plastic impellers, it offers a robust solution for high-temperature environments. With options for both lead wires and terminals, it provides versatile integration for professional B2B applications.

Technical Specifications

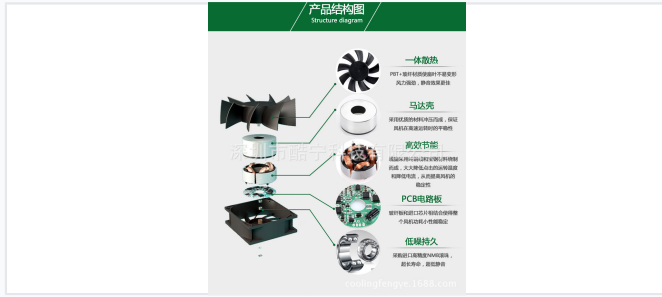
Electrical Performance

500 MΩ Insulation Impedance	2200 V/S Resist Strength
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Rated Voltage 220 V

Dimensions 18 x 18 x 4 mm

Construction & Materials



Detailed breakdown showing the PBT impeller, copper coils, and high-precision NMB bearings.



Comparison between long-life double ball bearings and low-noise oil-impregnated sleeve bearings.

Bearing Types Available

- Ball Bearing (Long life, high speed, low friction)
- Oil-Impregnated Sleeve Bearing (Low noise, cost-effective)

Housing Material

Die-cast aluminum

Impeller Material

Glass fiber reinforced plastic (UL 94V-0 rated)

Coil Material

High-temperature pure copper line

Operational Performance

Model Performance Comparison

Model	Rated Voltage (VDC)	Current (A)	Speed (RPM)	Air Flow (CFM)	Noise (dB-A)
CLD1804L33X	3.3	0.03	8500	0.65	<25
CLD1804L05X	5	0.04	13000	0.9	<35

Compliance & Safety

Certifications

CE, RoHS, UL 94V-0

Usage Guidelines

Operational Safety

- Do not pull power leads or press blades to avoid axis damage
- Avoid use in environments with high dust, water droplets, or insects
- Do not operate in flammable gas or hazardous environments
- Maximum operating temperature: 80°C
- Avoid locking the fan while powered to prevent motor burnout
- Screw torque for mounting should not exceed 4Kgf

Service & Warranty

Warranty Period

- Ball bearing fans: 2 years
- Oil-impregnated fans: 1 year