JR8025 — 80 × 80 × 25 mm DC Frame-less Fan

Typical Applications

Industrial & Power Ventilation & cooling for industrial control cabinets, small frequency inverters and servo drivers; heat dissipation for switching power supplies, high-power power modules and UPS units	**Medical & Display** Cabinet cooling for analytical instruments and physical-therapy devices; cooling for projectors, advertising displays and all-in-one display equipment
New Energy & Vehicle Small energy-storage modules, vehicle electronic control systems and on-board chargers	**Telecom & Network** Ventilation for network switches, gateways and compact communication enclosures
Consumer & Others Small home appliances, fitness-machine electronic control boxes and mainboard cooling for 3D-printers	

General Specifications

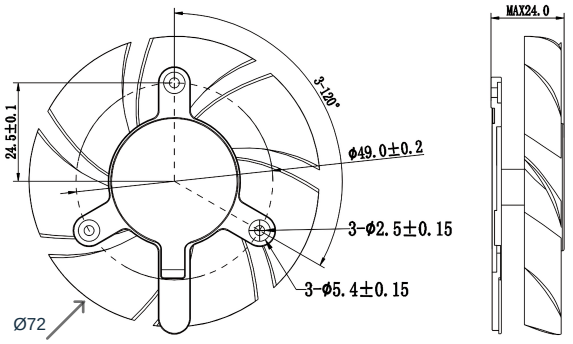
- **Series size:** 80 × 80 × 25 mm
- **Frame:** Thermoplastic PBT, UL 94V-0 (frame-less design)
- **Impeller:** Thermoplastic PBT, UL 94V-0
- **Bearing system:** Ball or Sleeve
- **Life expectancy:** 30,000 hrs (Sleeve) / 50,000 hrs (Ball), continuous operation at 25°C, 65% RH
- **Rated voltages:** 5 / 12 / 24 VDC
- **Speeds:** 2,000 (L) / 2,500 (LL) / 3,000 (M) / 3,500 (MM) / 4,000 (H) / 4,500 (HH) RPM
- **Max airflow:** 52.83 CFM
- **Max static pressure:** 8.5 mmH_2O
- **Weight:** 48.8 g

Performance Data

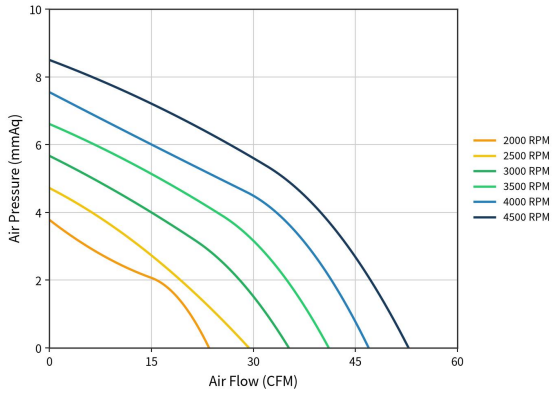
Model	Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Max. Airflow	Max. Static Pressure	Noise
JR8025L05	5 VDC	3.6–6.8 VDC	0.13 A	0.65 W	2,000 RPM	23.48 CFM	3.78 mmH_2O	25.2 dB(A)
JR8025L12	12 VDC	7.0–13.5 VDC	0.05 A	0.60 W	2,000 RPM	23.48 CFM	3.78 mmH_2O	25.2 dB(A)
JR8025L24	24 VDC	18–26.5 VDC	0.02 A	0.48 W	2,000 RPM	23.48 CFM	3.78 mmH_2O	25.2 dB(A)
JR8025LL05	5 VDC	3.6–6.8 VDC	0.21 A	1.05 W	2,500 RPM	29.35 CFM	4.72 mmH_2O	28.3 dB(A)
JR8025LL12	12 VDC	7.0–13.5 VDC	0.08 A	1.06 W	2,500 RPM	29.35 CFM	4.72 mmH_2O	28.3 dB(A)
JR8025LL24	24 VDC	18–26.5 VDC	0.04 A	0.96 W	2,500 RPM	29.35 CFM	4.72 mmH_2O	28.3 dB(A)
JR8025M05	5 VDC	3.6–6.8 VDC	0.35 A	1.75 W	3,000 RPM	35.22 CFM	5.67 mmH_2O	35.2 dB(A)
JR8025M12	12 VDC	7.0–13.5 VDC	0.14 A	1.68 W	3,000 RPM	35.22 CFM	5.67 mmH_2O	35.2 dB(A)
JR8025M24	24 VDC	18–26.5 VDC	0.07 A	1.58 W	3,000 RPM	35.22 CFM	5.67 mmH_2O	35.2 dB(A)
JR8025MM05	5 VDC	3.6–6.8 VDC	0.57 A	2.85 W	3,500 RPM	41.09 CFM	6.61 mmH_2O	37.6 dB(A)
JR8025MM12	12 VDC	7.0–13.5 VDC	0.23 A	2.76 W	3,500 RPM	41.09 CFM	6.61 mmH_2O	37.6 dB(A)
JR8025MM24	24 VDC	18–26.5 VDC	0.11 A	2.54 W	3,500 RPM	41.09 CFM	6.61 mmH_2O	37.6 dB(A)
JR8025H05	5 VDC	3.6–6.8 VDC	0.92 A	4.60 W	4,000 RPM	46.96 CFM	7.55 mmH_2O	42.9 dB(A)
JR8025H12	12 VDC	7.0–13.5 VDC	0.36 A	4.32 W	4,000 RPM	46.96 CFM	7.55 mmH_2O	42.9 dB(A)
JR8025H24	24 VDC	18–26.5 VDC	0.17 A	4.18 W	4,000 RPM	46.96 CFM	7.55 mmH_2O	42.9 dB(A)
JR8025HH05	5 VDC	3.6–6.8 VDC	1.39 A	6.95 W	4,500 RPM	52.83 CFM	8.50 mmH_2O	49.1 dB(A)
JR8025HH12	12 VDC	7.0–13.5 VDC	0.55 A	6.60 W	4,500 RPM	52.83 CFM	8.50 mmH_2O	49.1 dB(A)
JR8025HH24	24 VDC	18–26.5 VDC	0.26 A	6.24 W	4,500 RPM	52.83 CFM	8.50 mmH_2O	49.1 dB(A)

Available Functions

Motor Protection	Signal Output	Speed Control Mode
RP ● SS ● LP ● CL ● OVP ○	FG ● RD ● RDB ● LD ●	PWM ● TC ● VC ● CC ● CS ●



Mechanical Dimensions (mm)



Airflow — Static Pressure Curve