

BRUSHLESS DC FANS COMMON SPECIFICATIONS

● Environmental specifications

- (1) Operating environment: $-10 \sim +60 \text{ }^{\circ}\text{C}$ 35 ~ 85 %RH
- (2) Storage environment: $-30 \sim +70 \text{ }^{\circ}\text{C}$ 35 ~ 85 %RH

● Electrical specifications

- (1) Operating voltage range: Rated voltage $\pm 15 \%$ (10 %)
- (2) Insulation class: JIS C 4004 type E (120°C)
- (3) Dielectric strength: Maximum 1 mA of leakage under 600 V AC for 1 s between frame and lead wire.
- (4) Insulation resistance: Minimum 10 M Ω at DC500 V between frame and lead wire.

● Performance test method

- (1) Airflow: Based on Double-chamber method of AMCA 210
- (2) Noise: Measured at 10 cm from air inlet suspending fan at axis horizontal position in the air without any obstacles. Take the average for 10 seconds and convert into 1 m distance value.

● Main material of components

Component	Part number	Materials
Frame and impeller	F17FA F251R	ABS/PBT alloy
Printed circuit board	F310R F412R	Epoxy resin or Paper-based phenolic resin
Lead wire	F410T F614T	Heat resisting PVC

※ Please inquire regarding the standards acquisition as fan motor.

BRUSHLESS DC FANS **HANDLING NOTES**

- When mounting Brushless DC fans, tighten the screw at torque levels less than those shown below for the breakage and transformation prevention.

F16EA: 80 mN·m maximum

F17FA: 80 mN·m maximum

F17HA: 80 mN·m maximum

F251R: 400 mN·m maximum

F310R: 400 mN·m maximum

F412R, F410T: 588.4 mN·m maximum

F614T: 784.6 mN·m maximum

F455B: 400 mN·m maximum

- Do not attempt to modify or disassemble the Brushless DC fans.
- Do not hold or carry Brushless DC fans by the lead wires.
- Please avoid mechanical shock because of precision bearings structure.