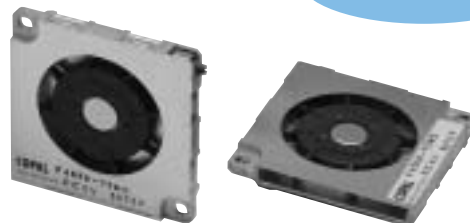


Low-profile Brushless DC Side Flow Fan Motor

- Ultra-slim model, that is ideal for imaging terminals/navigation systems/mobile PCs
- Realization of high air flow and low noise by adoption of hydrodynamic design of impeller
- Longer operating life and low-noise by sealed bearing structure
- FG signal output available to monitor change in motor condition

RoHS compliant



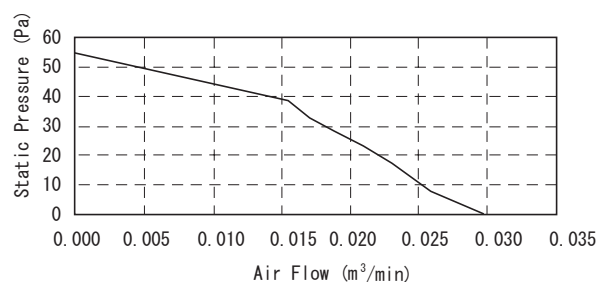
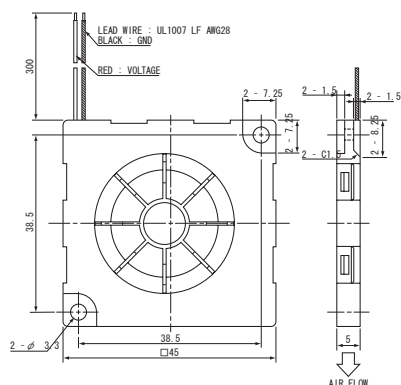
OTHER SPECIFICATIONS

Part number	F455B-05MD
Rated voltage	5 V
Voltage range	4.5 ~ 5.5 V
Rated current	0.14 A
Rotating speed	5,000 rpm
Air flow	0.03 m³/min
Static pressure	54 Pa
Noise	23 dB(A)
Use environment	-10 ~ +60 °C (35 ~ 85 %RH)
Storage environment	-20 ~ +70 °C (35 ~ 85 %RH)
Net weight	25 g

*Figures in the table are typical values under rated operating condition.

Insulation class	JIS C 4004 type (120 ° C)
Insulation resistance	Minimum 10 M ohm at DC500V between frame and terminals(+)
Dielectric strength	Maximum 1 mA of leakage under 600 V AC for 1 s between frame and terminal(+)
Withstanding restraint	After 50 hours restraining at rated voltage, no burnout and no mechanical damage
Allowable load	0.2 N maximum on metal frame or impeller
Average life (MTTF) (Definition)	Over 10,000 hours (at room temperature and room humidity) Till the point of dropping down 30% from the initial number of rotations (Under designated environment, after no load continuous running at rated voltage)
Structure	Cover : SUS304 Housing : Zinc die casting Impeller : ABS/PBT Alloy Bearing : Sleeve bearing

AIR FLOW PERFORMANCE CURVES



Nishi-shinjuku Kimuraya Bldg., 7-5-25 Nishi-shinjuku-ku, Tokyo 160-0023 JAPAN Phone : 03-3364-7055 Fax : 03-3364-7098

<SINGAPORE BRANCH>

2 Havelock Road #06-07 Apollo Centre, Singapore 059763 Phone : 6535-0056 Fax : 6535-0087

NIDEC COPAL ELECTRONICS GMBH

Mergenthalerallee 79-81 65760 Eschborn, Germany
Phone : 061-96-92775-0 Fax : 061-96-92775-75

NIDEC COPAL ELECTRONICS KOREA CORP.

Rm.702 Jin-il Bldg., 52-7 Banpo-Dong, Seocho-Gu, Seoul 137-040
Korea

Phone : 02-3482-5861 Fax : 02-3482-5860

URL:<http://www.nidec-copal-electronics.com/>