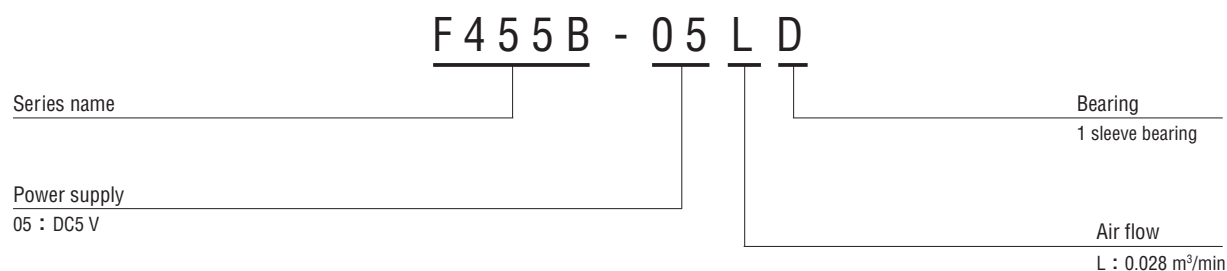# F455B

BRUSHLESS DC SIDE FLOW FAN MOTORS

■FEATURES

● Ultra-slim model, that is ideal for imaging terminals/ navigation systems/mobile PCs
● Realization of high air flow and low noise by adoption of hydro dynamic 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

■PART NUMBER DESIGNATION

F 4 5 5 B - 0 5 L D

Series name

Power supply
05 : DC5 V

Air flow
L : 0.028 m³/min

Bearing
1 sleeve bearing

■LIST OF PART NUMBERS

Power supply	Air flow
	0.028 m³/min
DC5 V	F455B-05LD

※ Verify the above part numbers when placing orders.

Nov., 2009

■STANDARD SPECIFICATIONS

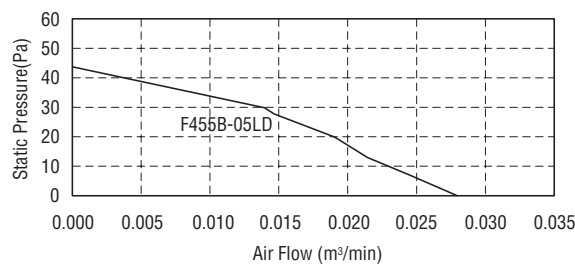| Part number	F455B-05LD
Rated voltage	5 V
Voltage range	4.7 ~ 5.5 V
Rated current	0.1 A
Rotating speed	4,500 rpm
Air flow	0.028 m³/min
Static pressure	44 Pa
Noise	20 dB(A)
Use environment	−10 ~ 60 °C (35 ~ 85 %RH)
Storage environment	−20 ~ 70 °C (35 ~ 85 %RH)
Net weight	25 g

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

■OTHER SPECIFICATION

Insulation class	JIS C 4004 type (120 °C)
Insulation resistance	Minimum 10 M ohm at DC 500 V between frame and terminals (+)
Dielectric strength	Maximum 1 mA of leakage under 600 V AC for 1 s between frame and terminal (±)
Withstand 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)	Over 10,000 hours (at room temperature and room humidity)
(Definition)	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

※The performance might not be able to be satisfied when the fan is placed downward. Please consult us before placement.

■AIR FLOW PERFORMANCE CURVES

F455B-05LD

Static Pressure(Pa) vs Air Flow (m³/min)

■OUTLINE DIMENSIONS

(Unit: mm)

LEAD WIRE : UL1007 LF AWG28
BLACK : GND
RED : VOLTAGE

300

2 – 7.25
2 – 1.5
2 – 1.5
2 – 7.25
2 – 8.25
2 – C1.5

38.5

2 – φ3.3
38.5
□45

5

AIR FLOW

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