

## BRUSHLESS DC SIDE FLOW FAN MOTORS

## F455B

## ■ 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 M D

Series name

Power supply  
05 : DC5 VBearing  
D : 1 sleeve bearingAir flow  
M : 0.03 m³/min

## ■ LIST OF PART NUMBERS

Power supply	Part number
DC5 V	F455B-05MD

※ Verify the above part numbers when placing orders.

# **F455B** **BRUSHLESS DC SIDE FLOW FAN MOTORS**

## ■ STANDARD SPECIFICATIONS

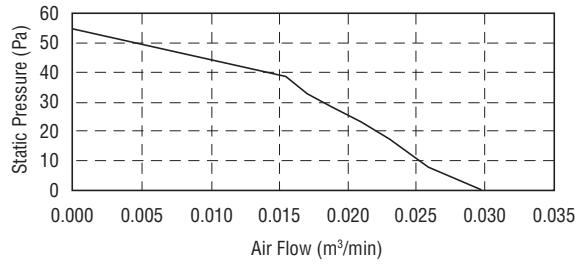
Part number	F455B-05MD
Rated voltage	5 V
Voltage range	4.5 ~ 5.5 V
Rated current	0.14 A
Rotating speed	5,000 rpm
Air flow	0.03 m <sup>3</sup> /min
Static pressure	54 Pa
Noise	23 dB(A)
Use environment	-10 ~ +60 °C (35 ~ 85 %RH)
Storage environment	-20 ~ +70 °C (35 ~ 85 %RH)
Net weight	25 g

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

## ■ 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)  (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 Impeller : ABS/PBT alloy	Housing : Zinc die casting Bearing : Sleeve bearing

## AIR FLOW PERFORMANCE CURVES



## ■ OUTLINE DIMENSIONS

(Unit: mm)

