Brushless DC Fan Motor

High Air Flow 17x17x5mm
Miniature DC Fan Motor

F17FA Series

A Nidec Group Company

COPAL ELECTRONICS

All for dreams

Miniature Brushless DC Fan Motors

F17FA SERIES

High Air Flow 17x17x5mm Miniature Fans

Part Number Designation

F17FA -03 M C

- F17FA — Series
- 03 — Voltage ("03" = 3.3V)
- M — Air flow ("M" = 0.01m³/min)
- C — Bearing("C" = 1 sleeve bearing)

Features

- 17 x 17 x 5 mm miniature fan.
- Proprietary impeller design provides high air flow and quiet operation. (0.01m³/min, 5dB(A) at 7000rpm)
- Fans with FG signal output are also available.

Applications

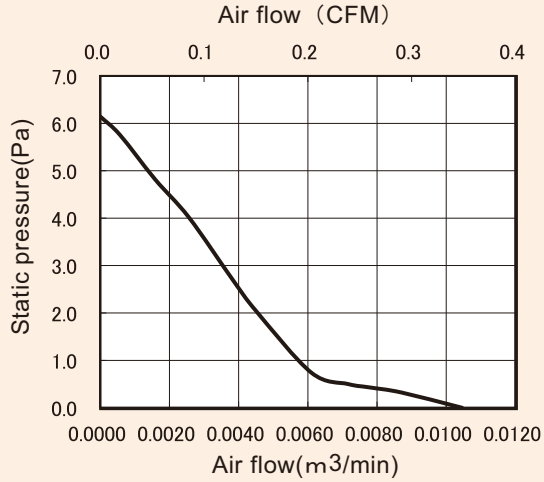
- Video equipments
- Information systems
- Telecommunication equipments

1） Standard Specifications

Part Number	Rated Voltage V	Rated Current mA	Rotational Speed min-1	Air Flow m3/min	Static Pressure Pa	Noise Level dB（A）
F17FA-03MC	3.3	70	7,000	0.01	6	5.0 d B（at 1m） 35.5dB（at 3cm）

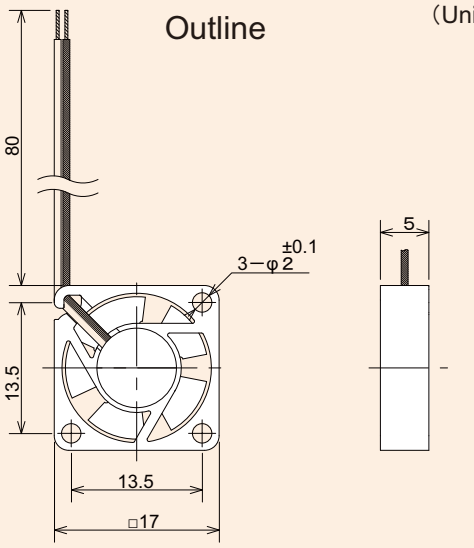
※ Typical values under normal operating conditions.

P-Q Characteristics



Outline

（Unit:mm）



2） Standard Specifications

■Environmental Specifications

Operating environment	0 ~ +60°C ， 35 ~ 85%RH
Storage environment	-30 ~ +70°C ， 35 ~ 85%R

■Electrical Specifications

Operating voltage range	3．1～3．5V
Insulation class	JIS C 4004 type E（120℃）
Dielectric voltage	Leakage current 1mA max (600V AC, 1sec, between frame and lead wire)
Insulation resistance	10Mohm min(DC500V, between frame and lead wire)
Locked rotor	No burnout or mechanical damages after 50hrs under locked-rotor condition with rated voltage applied.

■Safety Standards

Components are in compliance with the following safety standards.

Series	Components	Materials	Standards
F17FA	Frame and impeller	ABS/PBT alloy	UL94V-2
	Printed circuit board	Epoxy resin	UL94V-0
	Lead wires	Heat resisting PVC	AWM

⚠ Handling Notes

- ●Do not drop or apply shock to the product. Precision bearings used in the fans can be damaged by shock,leading to increase in audible noise level.
- ●Please design the diameter of the vent to be 15.9mm. If the diameter is smaller than 15.9mm, performances such as air flow characteristics, noise level, etc. may be affected.
- ●Mount the fans using M1.6 screws. Screw torque should be 60mN-m max. to avoid damages to the fans.
- ●Do not hold the lead wires to pick up or move the fans.
- ●Do not modify or disassemble the fans.

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