



RoHS **Compliant** 

## **Specifications:**

Rated Voltage : 3V DC

Operating Voltage Range : 2V DC to 3.5V DC

Starting Voltage : 2V DC (25°C Power ON/OFF)

Rated Speed : 14,500 RPM ± 30%

Air Delivery : 8.75 L/min Static Pressure : 20.36 Pa Rated Current : 36mA Rated Power : 0.1 Watts

Noise Level : 19.3dB(A) @ 1M

30dB(A) @ 0.3M

Direction of Rotation : Counter-clockwise viewed from front of fan blade

: -10°C to +70°C Operating Temperature Storage Temperature : -40°C to +70°C Bearing System : Vapo bearing system

Size : 15mm (H) × 15mm (W) × 3mm (D)

Weight : 1.17g

Protection : Automatic Restart Capability

> Note: In a situation where the fan is locked by an external force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is released.

Polarity Protection

### **Characteristics:**

Motor Design : Single phase, 6-poles Brushless DC motor

Insulation Resistance : More than  $20M\Omega$  between internal stator and lead wire(+) measured at DC 100V Dielectric Strength

: Applied AC 500V for one minute or AC 600V for 2 seconds between housing

and lead wire(+)

Noise Level : Measured in a semi-anechoic chamber with background noise level below 15dB(A).

The fan is running in free air with the microphone at a distance of one meter from

the fan intake.

Input Power, Current & Speed : Measured after continuous 10 minute operation at rated voltage in clean air,

and at ambient temperature of 25°C

Tolerance : +20%/-30% on rated power and current

: Measured by a double chamber. The values are recorded when the fan speed Air Performance

has stabilized at rated voltage

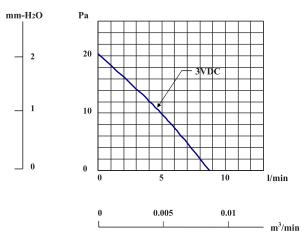
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### **Performance Curves**

Static Pressure

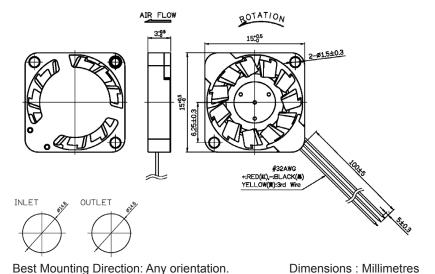


## Material

Frame : Thermoplastic LCP
Impeller : Thermoplastic LCP
Lead Wire : 32 AWG, +Red, -Black
32 AWG, Yellow : 3rd Wire

Screw Type (Pan Head)	Torque	Screw Spec.	
Machine screw	0.3 to 0.5 Kgf-cm	Size	Standard
		M1.4	JISB1111-1974

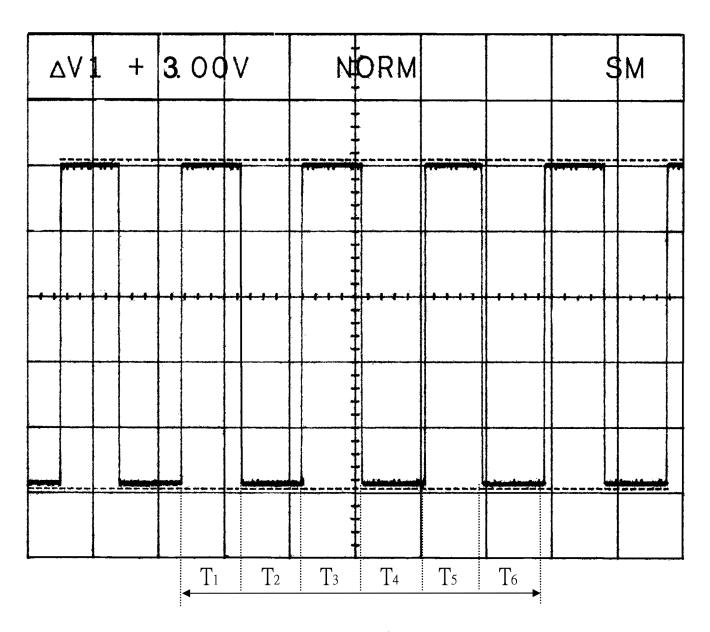
## **Dimensions**



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T=1 Rotation

T=T1+T2+T3+T4+T5+T6=(1 Rotation)

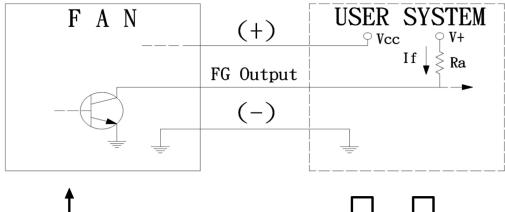
$$T = \frac{60}{rpm}$$

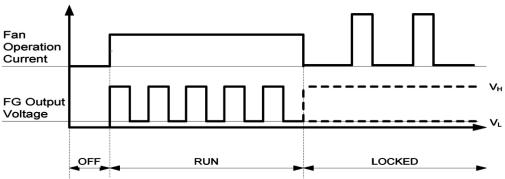




### Fan 3rd Wire

F Type (Frequency Generator)





#### Electrical Characteristics: (at Ta = 25°C, Vcc = 3V)

Darameter	Ratings			Unit
Parameter	Min.	Тур.	Max.	Ullit
FG Supply Voltage (V+)	-	-	3.5	Voltage
FG Output Current (If)	-	-	4	mA
FG Output (VL)	-	-	0.5	Voltage
FG Output (VH)	-	V+	-	Voltage

### **Part Number Table**

Description	Part Number	
DC Brushless Fan	MC34115	

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