

80mm sq.**San Ace 80****General Specifications**

- Material.....Frame: Plastics (Flammability: UL94V-0),
Impeller: Plastics (Flammability: UL94V-0)
- Expected LifeRefer to specifications (L10:Survival rate:90% at 60°C ,
rated voltage, and continuously run in a free air state)
- Lead Wire⊕red ⊖black (Sensor) yellow (Control) brown
- Storage Temperature ...-30°C to +70°C (Non-condensing)

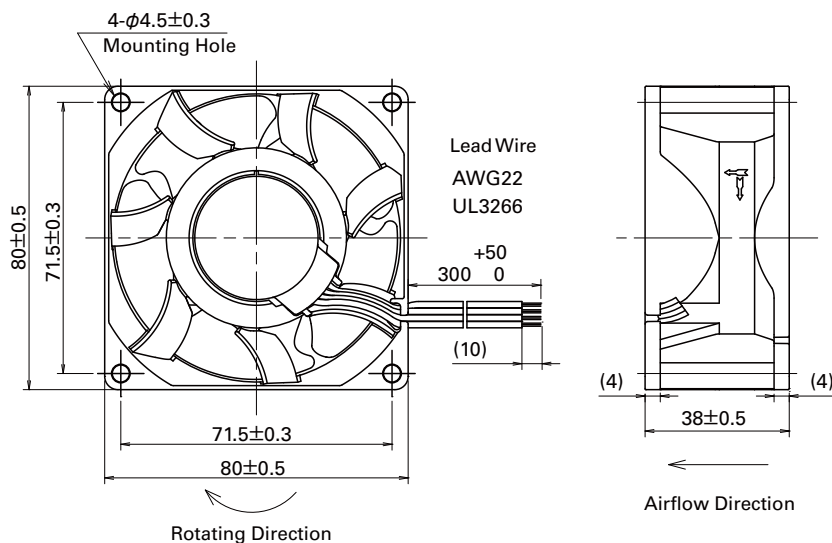
80×80×38mm [Mass : 220g] **9HVA type****Specifications** The following nos. **have PWM controls, pulse sensors, and ribs.** For ribless, append "1" to the model no.

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	PWM duty cycle ^{Note①} [%]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Max. Airflow [m³/min] [CFM]	Max. Static Pressure [Pa] [inchH₂O]	SPL [dB(A)]	Operating Temperature [°C]	Expected Life [h]
9HVA0812P1G001	12	10.8 to 13.2	100	3.5	42	16,100	3.75 132	1,350 5.4	73	-20 to +70	40,000/60°C (70,000/40°C)
			20	0.2	2.4	4,200	0.96 33.9	105 0.42	44		

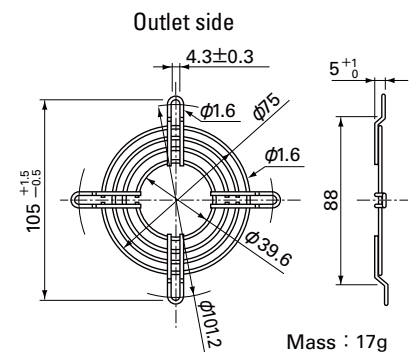
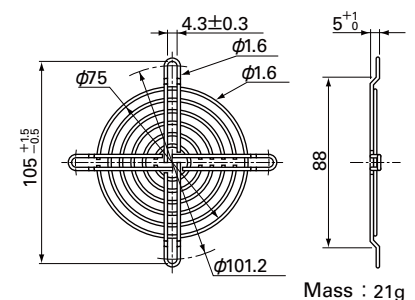
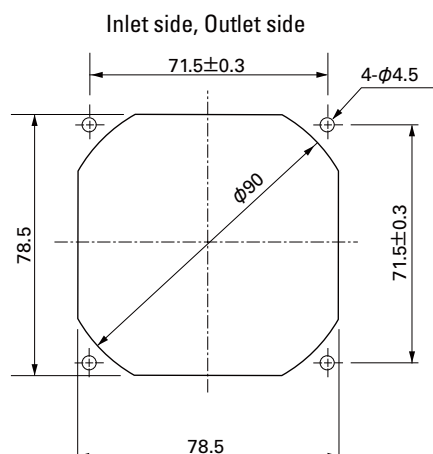
Note: Fan does not rotate when PWM duty cycle is 0%.

※PWM Frequency : 25kHz

Other sensor specifications are available as options. Please refer to the index (p. 509).

Dimensions (unit: mm) (With ribs)**Options (unit: mm)****Finger Guards**

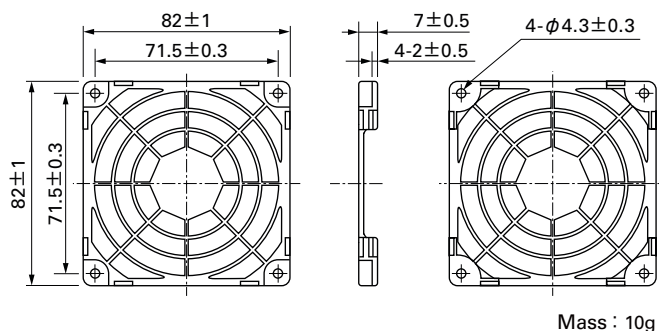
Model : 109-049C Surface treatment : Nickel-chrome plating (silver) Color

Model : 109-049E Surface treatment : Nickel-chrome plating (silver) Color
: 109-049H : Cation electropainting (black)**Inlet side, Outlet side****Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)**

Options (unit: mm)

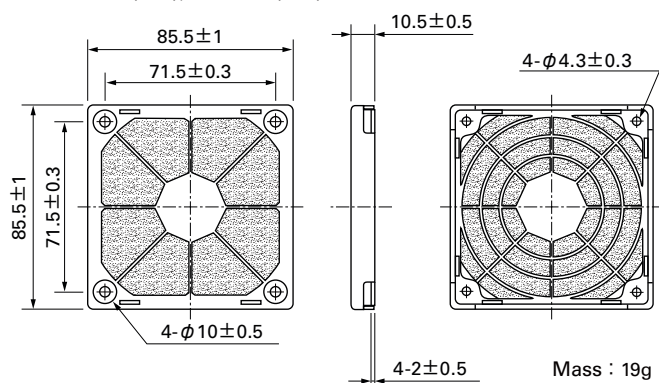
Resin Finger Guards

Model : 109-1002G



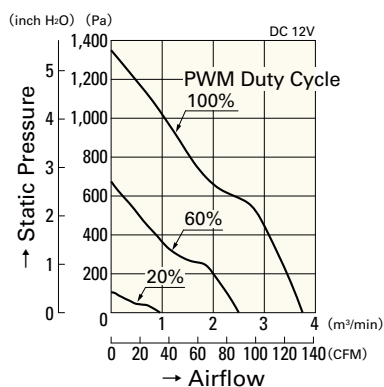
Resin Filter Kits

Model : 109-1002F13 (13PPI), 109-1002F20 (20PPI)
 : 109-1002F30 (30PPI), 109-1002F40 (40PPI)



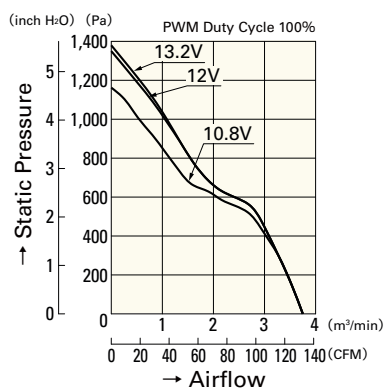
Airflow - Static Pressure Characteristics

PWM Duty Cycle



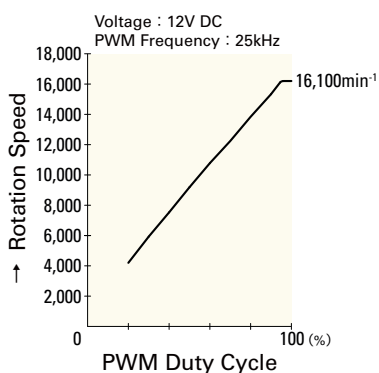
9HVA0812P1G001

Operating Voltage Range



9HVA0812P1G001

PWM Duty - Speed Characteristics Example



9HVA0812P1G001