

80mm sq.**San Ace 80**

20mm thick, 25mm thick

External thermistor model /

Built-in thermistor model



Note: Optional external thermistors are sold separately.

General Specifications

- Material Frame: Plastics (Flammability: UL94V-0),
Impeller: Plastics (Flammability: UL94V-1)
- Life Expectancy Varies for each model (L10: Survival rate: 90% at 60°C, rated voltage, and continuously run in a free air state)
- Lead Wire ⊕red ⊖black (Control) brown (Only for external thermistor type)
- Fail-safe The motor becomes high speed when the thermistor is unable to detect the temperature in case of open or short circuit etc. (Models equipped with a pulse sensor are excluded.)
- Storage Temperature... -30°C to +70°C (Non-condensing)

80×80×20mm (Mass : 100g)**Specifications External thermistor model**

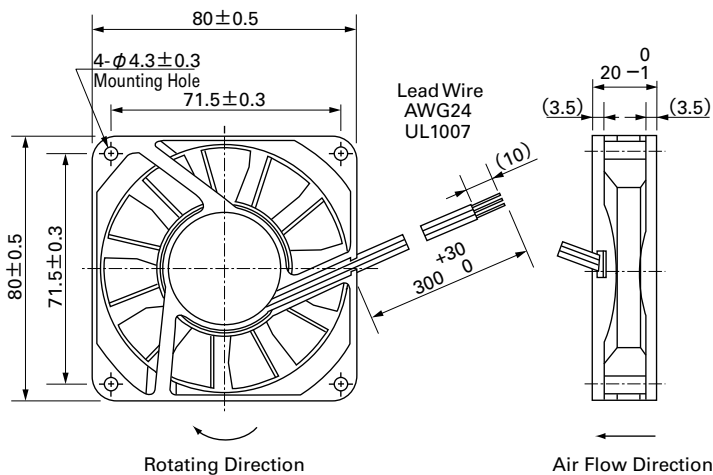
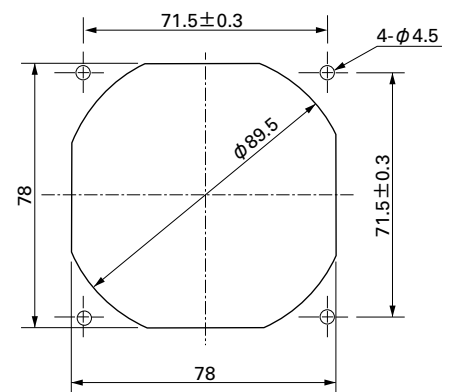
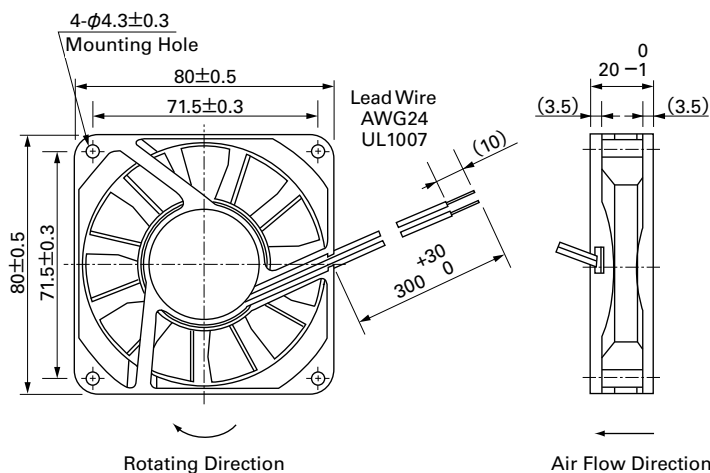
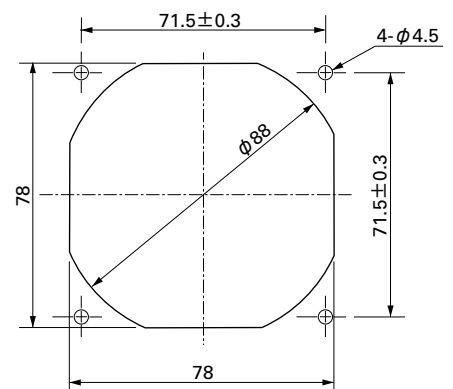
Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Air Flow [m ³ /min] [CFM]	Static Pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
109P0812T6H12	12	10.2 to 13.8	0.18	2.16	2,900	0.84 29.7	29.4 0.118	31	-10 to +60	60,000
			0.1	1.2	1,450	0.42 14.8	7.4 0.030	18		

Note: The top row gives characteristics shown when the thermistor temperature is 35°C, while the bottom row gives characteristics shown when the thermistor temperature is 28°C (Thermistor: 169-002).

Built-in thermistor model

Model No.	Rated Voltage [V]	Operating Voltage Range [V]	Rated Current [A]	Rated Input [W]	Rated Speed [min ⁻¹]	Air Flow [m ³ /min] [CFM]	Static Pressure [Pa] [inchH ₂ O]	SPL [dB(A)]	Operating Temperature [°C]	Life Expectancy [h]
109P0812T6H122	12	10.2 to 13.8	0.18	2.16	3,050	0.88 31.0	32.5 0.131	32	-10 to +60	60,000
			0.1	1.2	1,450	0.42 14.8	7.4 0.030	20		

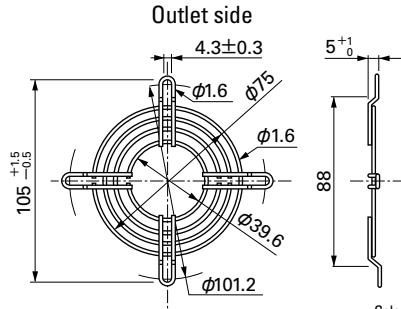
Note: The top row gives characteristics shown when the temperature is 40°C, while the bottom row gives characteristics shown when the temperature is 30°C.

Dimensions (Unit : mm)**External thermistor model****Reference dimensions of mounting holes and vent opening (Unit : mm)****Outlet side****Built-in thermistor model****Inlet side**

Options (Unit : mm)

Finger guards

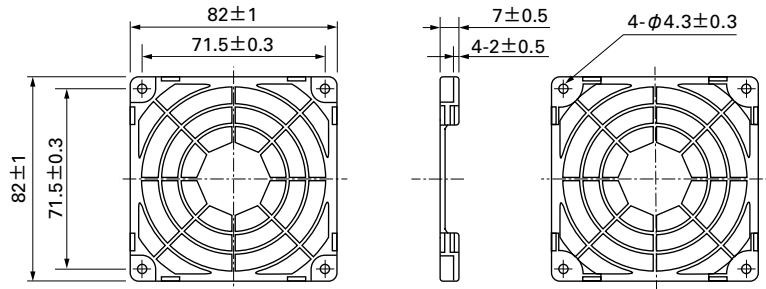
Model : 109-049C Surface treatment : Nickel-chrome plating (silver) Color



Model : 109-049E Surface treatment : Nickel-chrome plating (silver) Color
: 109-049H : Cation electropainting (black)

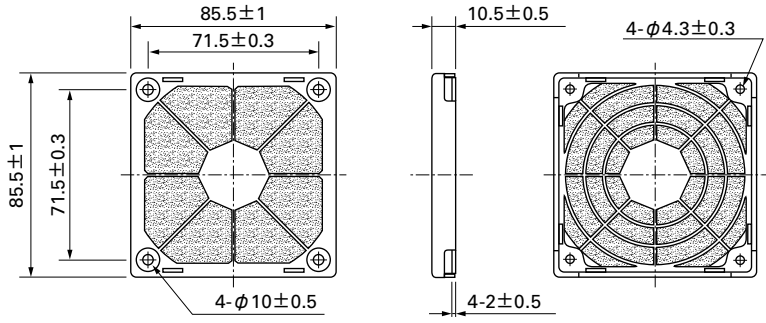
Resin finger guards

Model : 109-1002G



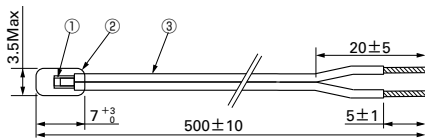
Resin filter kits

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



Thermistor

Model : 169-002



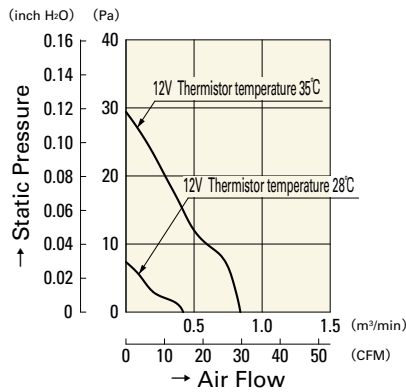
Number	Name	Standards,materials, etc.
①	Thermistor	Chip
②	Insulated cord	Epoxy resin
③	Lead	UL2555 CSA TR-64 AWG#28 (blue)

Item	Spec
2-1 Resistance	R25 6.8K Ω $\pm$ 3%
2-2 B constant	B25/50 3950K $\pm$ 2%
2-3 Maximum rated power	188mW (25 $^{\circ}$ C under still air)
2-4 Insulation resistance	100M Ω or more (DC500V megger)
2-5 Dielectric strength	No problem (AC1500V 1 minute)
2-6 Operating temperature range	-30 $^{\circ}$ C to +80 $^{\circ}$ C
2-7 Storage temperature range	-40 $^{\circ}$ C to +100 $^{\circ}$ C

Manufactured by OHIZUMI MFG CO.,LTD.
Mfr. Part No. 159-682-86

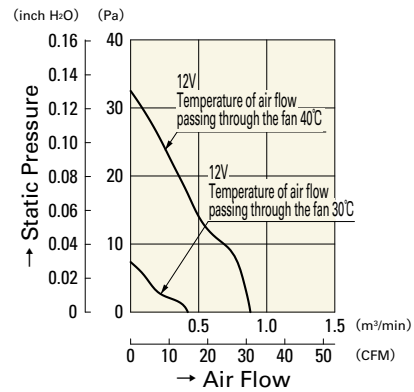
Air Flow and Static Pressure Characteristics

External thermistor model



109P0812T6H12

Built-in thermistor model

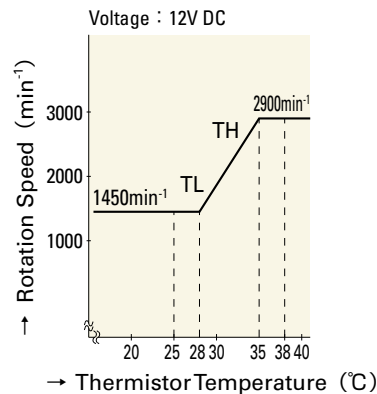


109P0812T6H122

Temperature-Rotation Speed Characteristics

External thermistor model

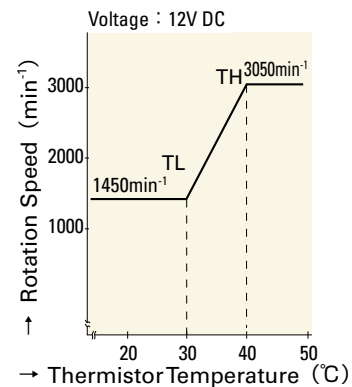
■ Characteristics of Thermistor-detected Temperature vs Speed



109P0812T6H12

Built-in thermistor model

■ Typical characteristics of temperature of air flowing through the fan versus rotation speed



109P0812T6H122

Mouser Electronics

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