Motor

EC/DC Motor

Parts & Accessories

Motor

PART NUMBER CODE

DM	1628V9	P18	I	O
Motor Type	Motor Size	Gearbox Type	Encoder Type	Rotor
DM : DC Brushless Motor DMB : DC Brushed Motor	XXXX : Diameter / Length of motor VX : Rated Voltage of Outer Rotor BLDC Motor	P/W/H : - Planetary gearbox (P) - Worm gearbox (W) - Harmonic Drive (H) XX : Gear Ratio	I/A : - Incremental encoder (I) - Absolute encoder (A)	Outer Rotor

DT	1628V9	09	P18	DV12
Motor Type	Motor Size	Step Angle	Gearbox Type	Voltage
DT : Hybrid Stepper Motor DTP : Permanent Magnet Stepper Motor	XXXX : Diameter / Length of motor VX : Rated Voltage	XX (°) : Step angle	P/W/H : - Planetary gearbox (P) - Worm gearbox (W) - Harmonic Drive (H) XX : Gear Ratio	D : Motor Driver VXX : Driver input voltage

S	130046	P18	MI	DV38
Motor Type	Motor Size	Gearbox Type	Encoder	Driver
S : Servo Motor	XXXXXX : Diameter / Length of motor	P/W/H : - Planetary gearbox (P) - Worm gearbox (W) - Harmonic Drive (H) XX : Gear Ratio	M/R/O/S : Encoder Signal - Magnetic (M) - Resolver (R) - Optical (O) - Sensorless (S) I/A : Encoder type - Incremental encoder (I) - Absolute encoder (A)	D : Motor Driver VXX : Driver input voltage

EM	100130	V1	W100
Motor Type	Motor Size	Voltage	Power
EM : Electronically Commutated motor	XXXXXX : Diameter / Length of motor	V1/V2/FV : Voltage type - AC 110-120V (V1) - AC 220-240V (V2) - AC 110-240V (FV)	WXXX : Wattage

EC / DC Motor

PART NUMBER CODE

EC Efficiency Motor

EM	105	W	120
Type	Motor Size	Power	
EC Motor	Ø105 mm	Watt	120

Motor

DM	10	4	V3	H	S
Motor Type	Motor Size		Voltage	Speed	Bearing
EM : EC Motor DM : DC Motor	Width	Thickness	V1 (AC 110-120V) V2 (AC 220-240V) FV (AC 110-240V) V3 : DC 3V V5 : DC 5V	H : High	S: Sleeve B: Ball

BLDC MOTOR

size from **16mm~110mm**

BLDC Motor

- Available matching encoder, gearbox (planetary, worm, harmonic) and driver.

- DM16
- DM36
- DM42
- DM57
- DM60
- DM70
- DM80
- DM86
- DM110

Outer Rotor BLDC Motor

- Available matching encoder, gearbox (planetary, worm, harmonic) and driver.

- DM20-O
- DM32-O
- DM45-O
- DM60-O
- DM90-O

DC Brushed MOTOR

size from 30mm~90mm

Motor Type

- DMB30
- DMB32
- DMB38
- DMB42
- DMB52
- DMB54
- DMB63
- DMB76
- DMB80
- DMB90

Stepper MOTOR

size from 20mm~110mm

HB Stepper Motor

- Available matching gearbox, brake and driver.

2-phase, 4 phase hybrid stepper motor

	1.8°	• DT20
	1.8°	• DT28
0.9°	1.8°	• DT35
0.9°	1.8°	• DT36
0.9°	1.8°	• DT39
0.9°	1.8°	• DT42
0.9°	1.8°	• DT57
	1.8°	• DT60
0.9°	1.8°	• DT86
	1.8°	• DT110

3-phase hybrid stepper motor

1.2° • DT56-3P • DT86-3P

5-phase hybrid stepper motor

0.72° • DT86-5P

PM Stepper Motor

- Available matching encoder, gearbox (planetary, worm, harmonic) and driver.

- DTP 10mm
- DTP 15mm
- DTP 20mm
- DTP 25mm
- DTP 35mm
- DTP 42mm
- DTP 49mm
- DTP 57mm
- DTP 64mm

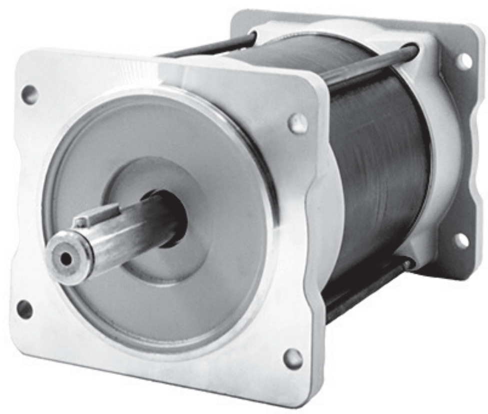
Motors

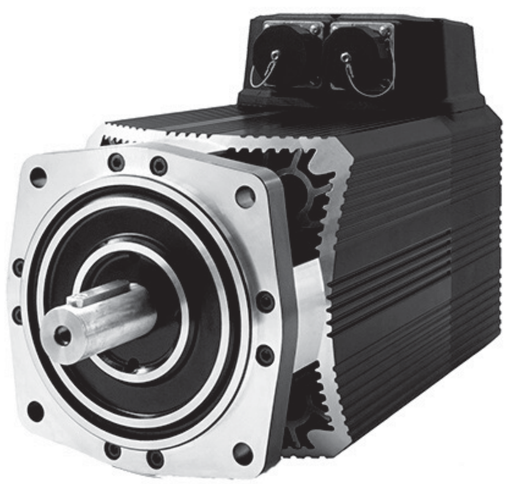
Servo MOTOR

size from 108mm~180mm

Motor Type

- Available matching encoder, gearbox, brake and driver.
- Explosion-Proof type available.

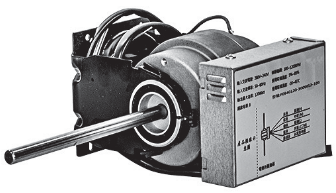


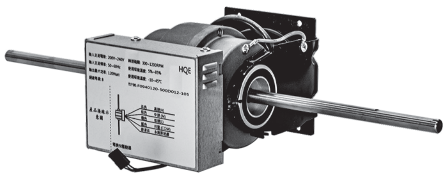


- S108
- S130046
- S130075
- S130105
- S130135
- S130165
- S160262
- S160292
- S160322
- S180335

EM 105 Ø105mm(11.81"x4.13")

CE

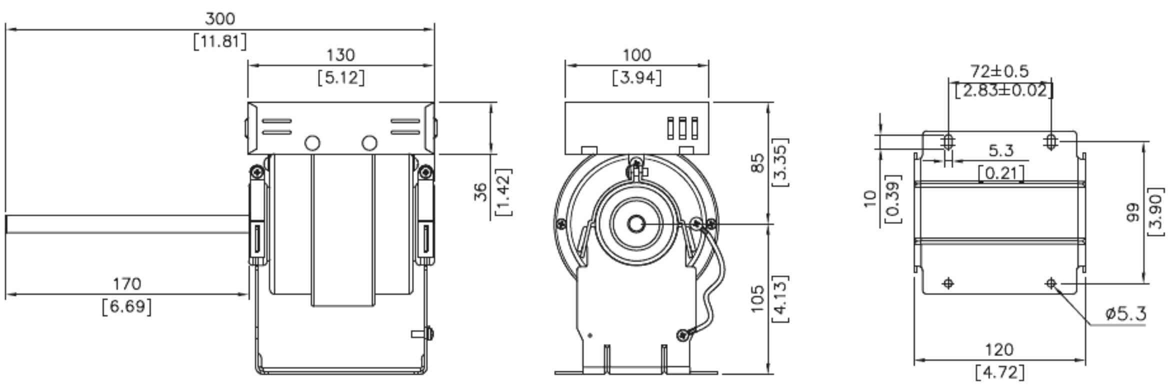




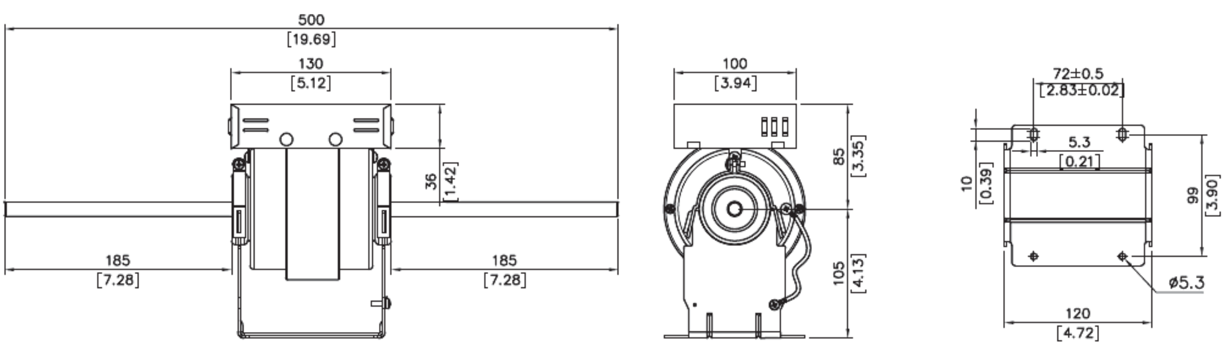
OPERATING TEMPERATURE	-15°C to + 40°C
OPERATING HUMIDITY	5% to 85%
TORQUE RANGE	10-14 Kg-cm
INSULATION CLASS	Level B
EFFICIENCY	75%
UNGROUNDED VOLTAGE LEAKAGE	<25 VAC
GROUNDED CURRENT LEAKAGE	<5 mA
SHAFT	Single shaft

105mm

DIMENSION



UNIT:mm[inch]



UNIT:mm[inch]

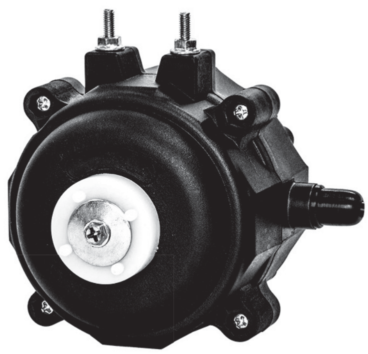
SPECIFICATION

MODEL NO.	RATED VOLTAGE (V)	FREQUENCY (Hz)	RATED CURRENT (A)	INPUT POWER (W)	SPEED (RPM)	Power Factor
EM300105W120	100-240	47~63	<1.2	120	300~1400	>0.9
EM300105W180	100-240	47~63	<1.2	180	300~1400	>0.9

Motors & Blade

EM84

Ø84X83~95mm(Ø3.3"x3.26"~3.74")

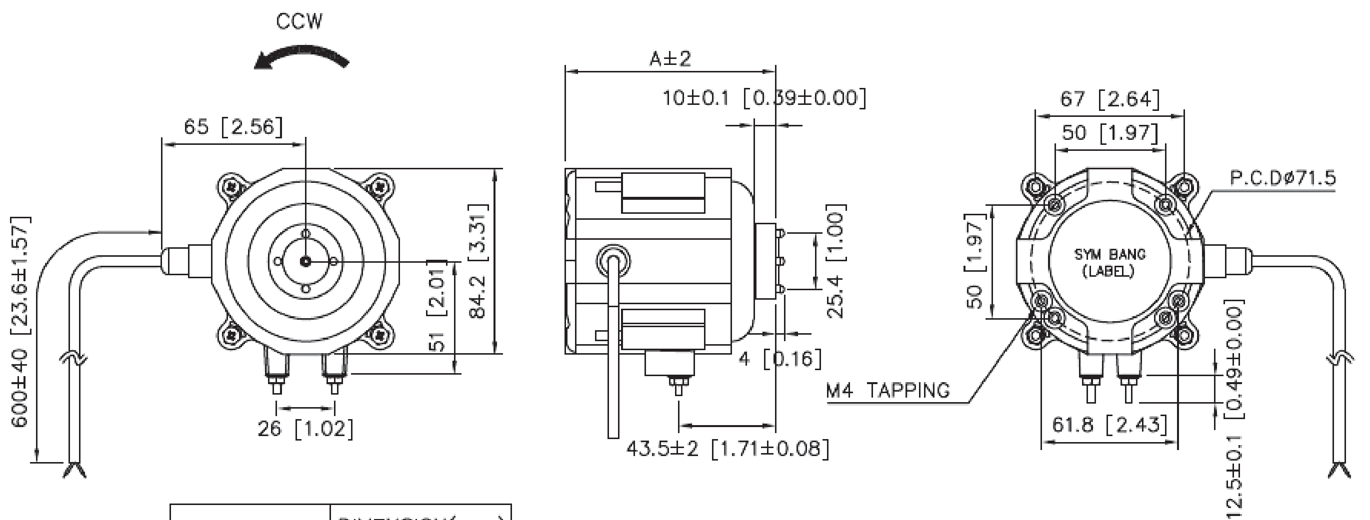


MOTOR TYPE	Brushless EC Motor
BEARING	Ball
OPERATING TEMPERATURE	-10°C to + 60°C
INSULATION	Class F
OPERATING VOLTAGE RANGE	88 VAC to 132 VAC for 110V Type 180 VAC to 256 VAC for 220V Type
DIELECTRIC STRENGTH	5mA Max. at 1500 VAC for 1 second
INSULATION RESISTANCE	10M Ω min. @500 VDC
TERMINATION	Lead Wire
ROHS COMPLIANCE	Yes
IP LEVEL	IP66(Special IP Rating On Requedt)

* Aluminum Blades are available in dia. 154, 172, 200, 230, 254, 300mm

84mm

DIMENSION



MODEL NO.	DIMENSION(mm)
	A
EM8483	83
EM8487	87
EM8495	95

UNIT: mm[inch]

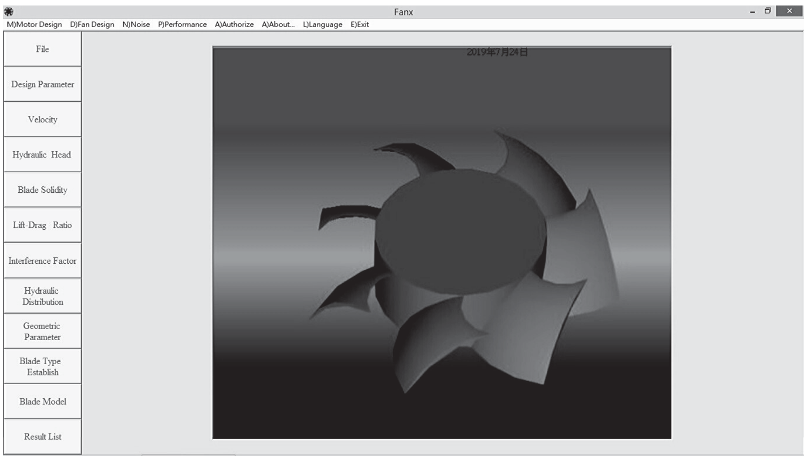
SPECIFICATION

MODEL NO.	RATED VOLTAGE (V)	FREQUENCY (Hz)	INPUT POWER (W)	SPEED (RPM)
EM8495V2	220	50/60	15.6	1300
EM8495V1	110	50/60	13.6	1300
EM8487V2	220	50/60	6.7	1300
EM8487V1	110	50/60	4.7	1300
EM8483V2	220	50/60	3.2	1300
EM8483V1	110	50/60	1.2	1300

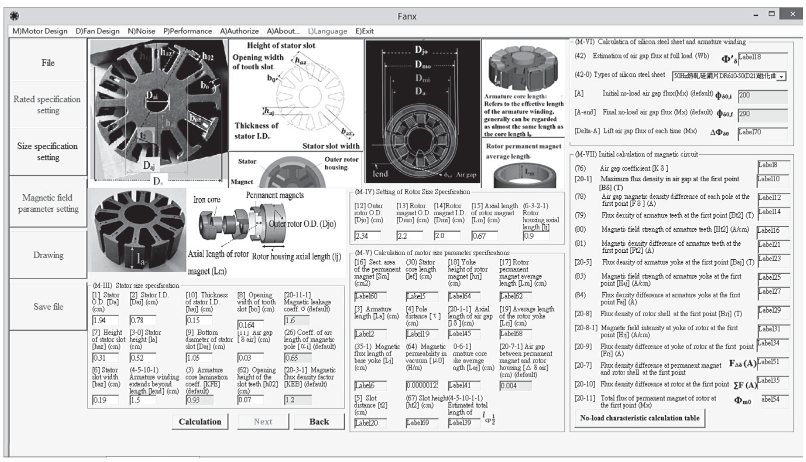
Motor Design Software

Startup Page

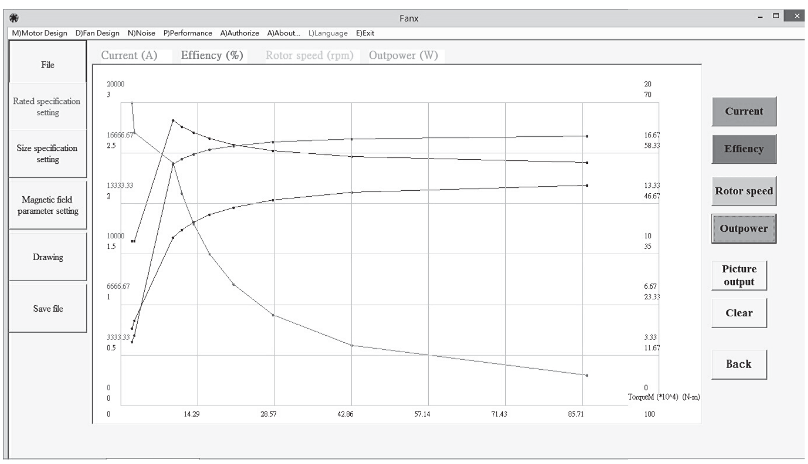
Front Page



Setting Page



Simulation Graph



DVM1004 Ø10X4mm(Ø0.39"x0.15")

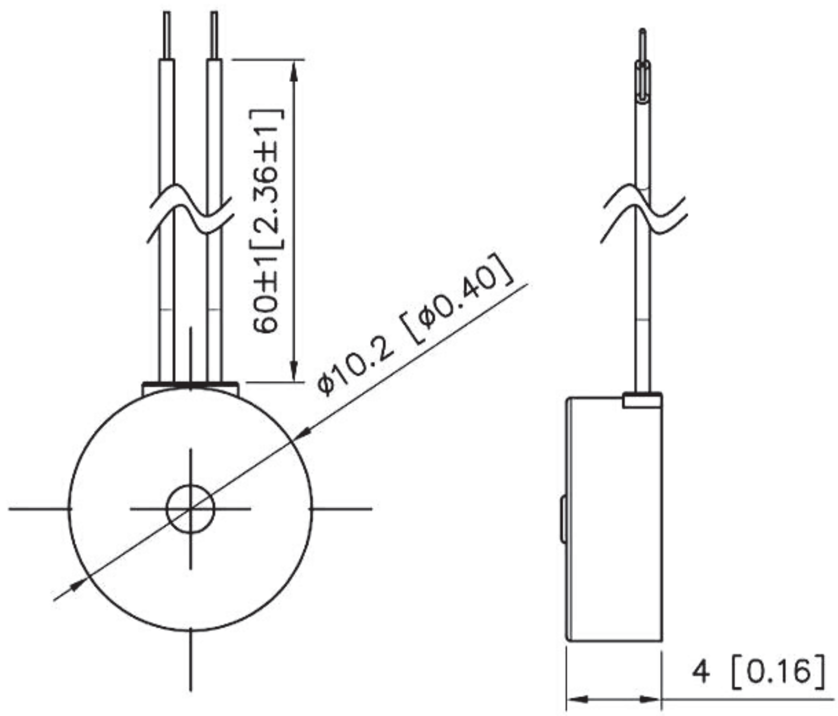
CE

MOTOR TYPE	Mini Brushless Vibration Motor
BEARING	Sleeve
OPERATING TEMPERATURE	-20°C to + 70°C
VIBRATION INTENSITY	5~11.8 m/s2 Max.
DIELECTRIC STRENGTH	5mA Max. at 500 VAC for 1 second
INSULATION RESISTANCE	10M Ω min. @500 VDC
TERMINATION	Lead Wire
WEIGHT	1.1 g
IP LEVEL	IP21 (Special IP Rating On Request)

10mm

Motors & Blade

DIMENSION



SPECIFICATION

MODEL NO.	RATED VOLTAGE (V)	RATED CURRENT (A)	INPUT POWER (W)	SPEED (RPM)
DVM1004V3HS	3	0.048	0.144	7000~9000

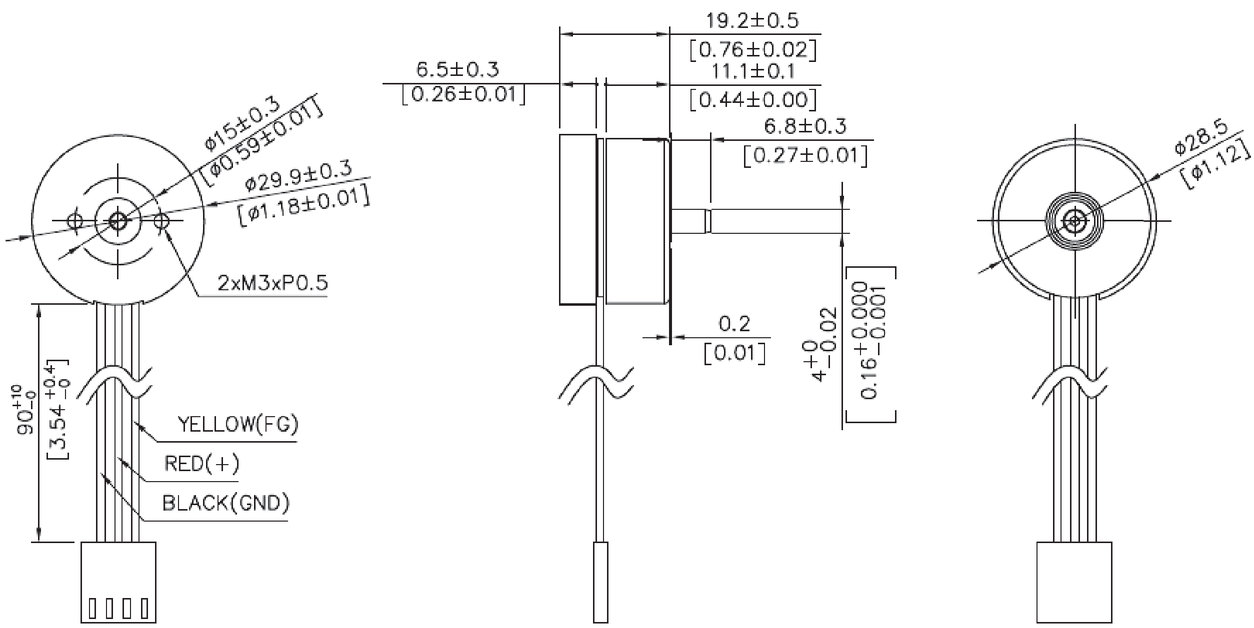
DM3026 Ø30X26mm(Ø1.17"x1.01")

MOTOR TYPE	Mini Brushless Motor
BEARING	Sleeve
OPERATING TEMPERATURE	-10°C to + 60°C
DIELECTRIC STRENGTH	5mA Max. at 500 VAC for 1 second
INSULATION RESISTANCE	10M Ω min. @500 VDC
TERMINATION	Lead Wire
WEIGHT	4.5 g
IP LEVEL	IP21 (Special IP Rating On Request)

30mm

Motors & Blade

DIMENSION



UNIT: mm[inch]

SPECIFICATION

MODEL NO.	RATED VOLTAGE (V)	RATED CURRENT (A)	INPUT POWER (W)	SPEED (RPM)
DM3026V12LS	12	0.05	0.6	2900

Parts & Accessories

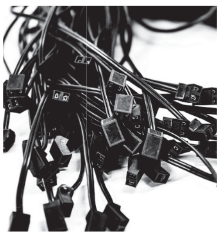
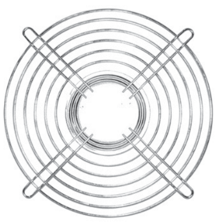
PART NUMBER CODE

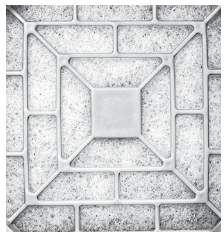
BL	320	3B
Abbr.	Blade Diameter	Number of Blade
Blade	320 : Ø320mm etc.	3B : 3 Blade

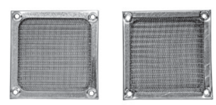
Blade

Cross Flow Fan Blade

*For more models, please kindly visit our website.





Accessories

BL320-3B

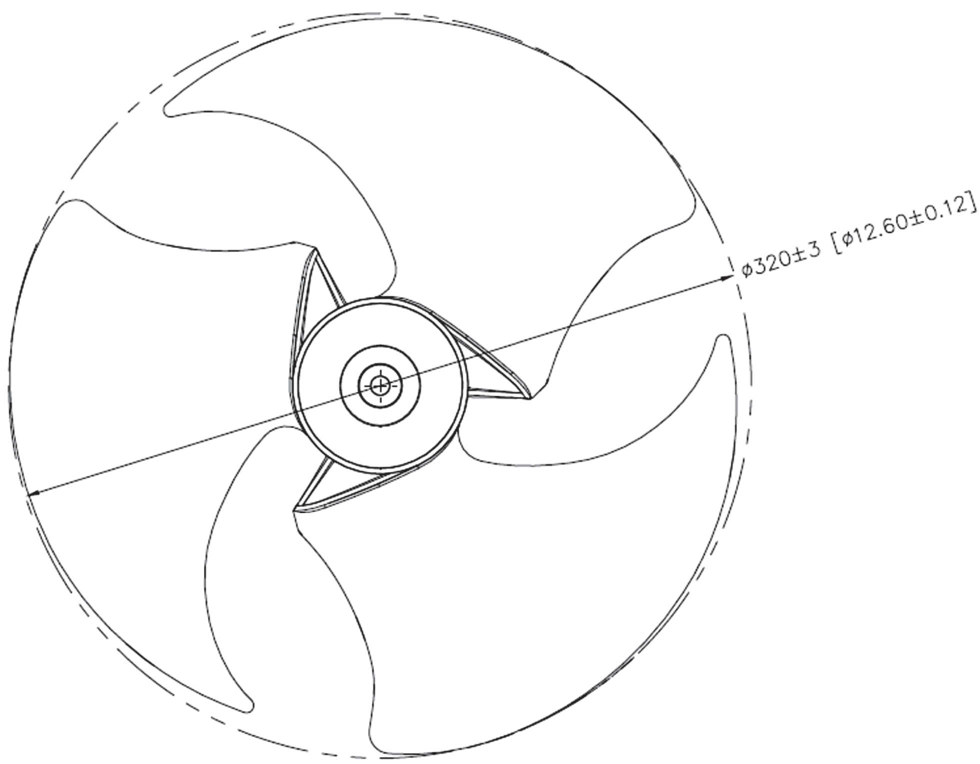
320mm(12.5")

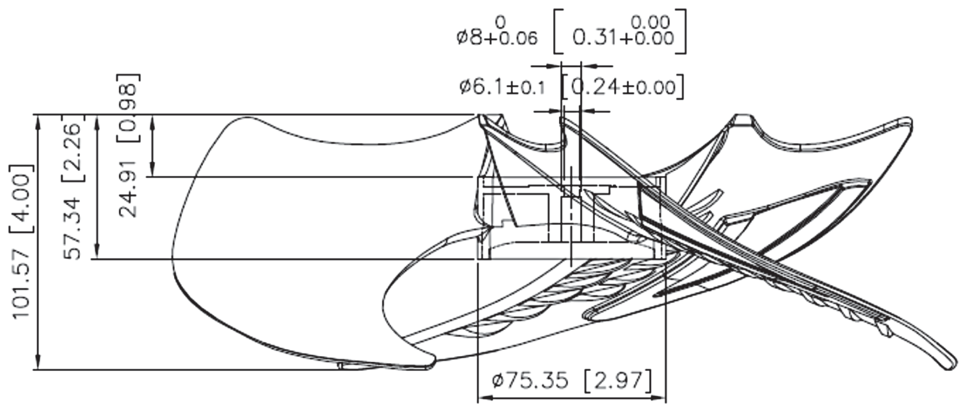
CE

Material	PP + GF
Weight	450g ± 5%
Speed	800 to 1000 RPM
	The shaft is Ø 8.00mm (+0.86, -0), and blade diameter is Ø 320mm (±3).
IP LEVEL	IP21 (Special IP Rating On Request)

320mm

DIMENSION





UNIT: mm[inch]

BL420-3B

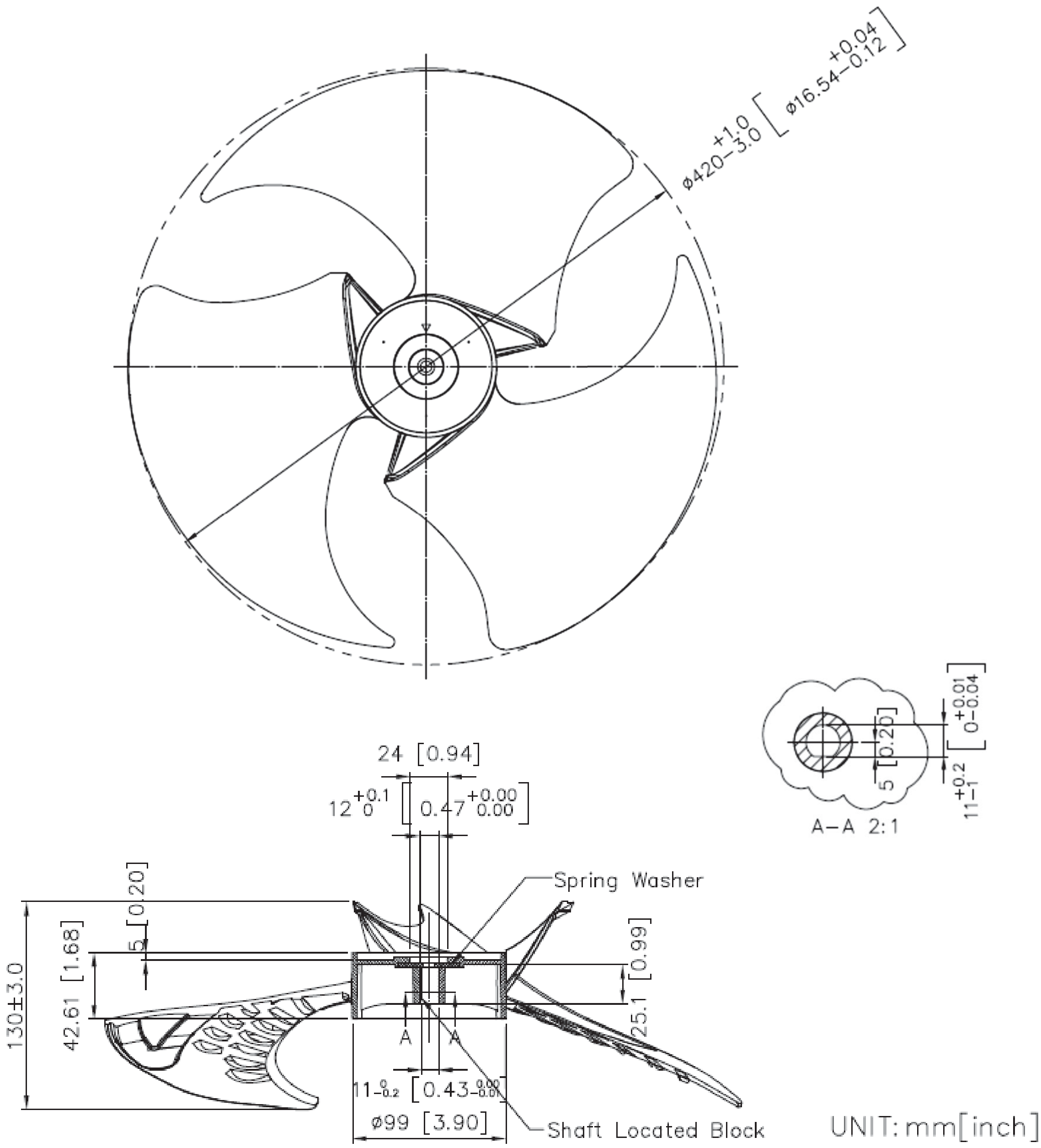
420mm(16.5")

Material	PP + GF
Weight	570g ± 5%
Speed	700 to 900 RPM
	The shaft is Ø 12.00mm (+0.1, -0), and blade diameter is Ø 420mm(+1, -3) .
IP LEVEL	IP21 (Special IP Rating On Request)

420mm

Motors & Blade

DIMENSION



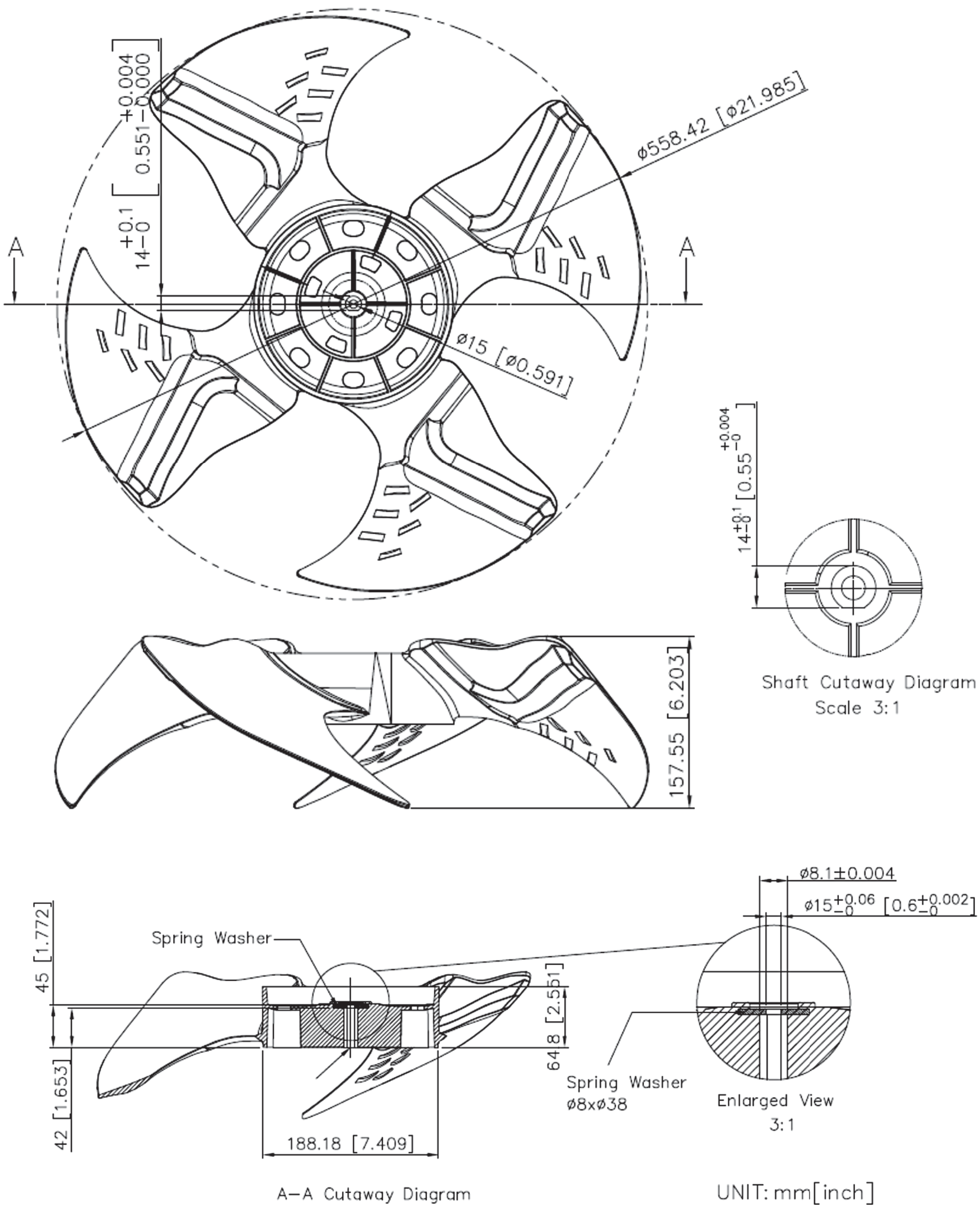
BL560-4B

560mm(22")

Material	PP + GF
Weight	1300g ± 5%
Speed	700 to 900 RPM
	The shaft is Ø 15.00mm (+0.06, -0), and blade diameter is Ø 560mm.
IP LEVEL	IP21 (Special IP Rating On Request)

560mm

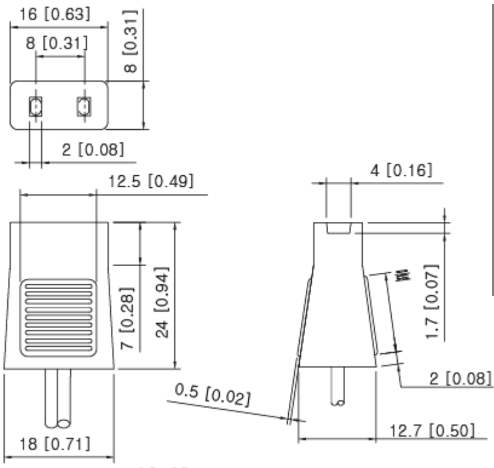
DIMENSION

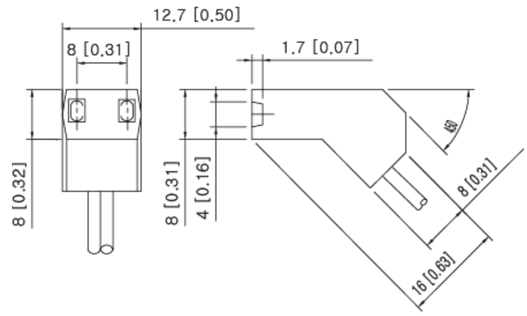


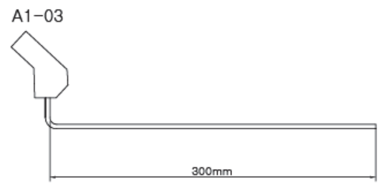
Motors & Blade

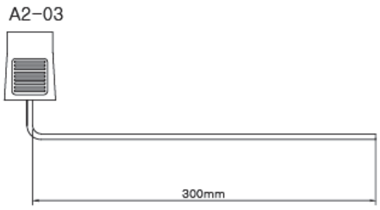
Plug Cords

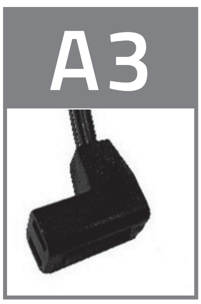
DIMENSION

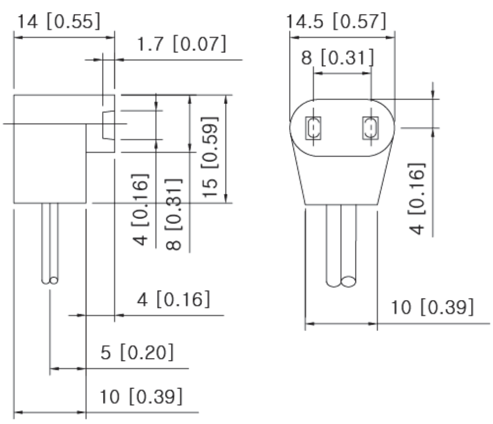


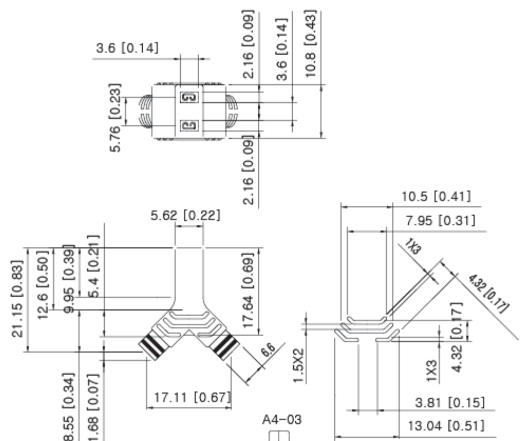


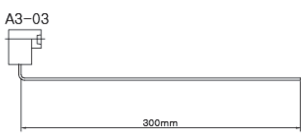


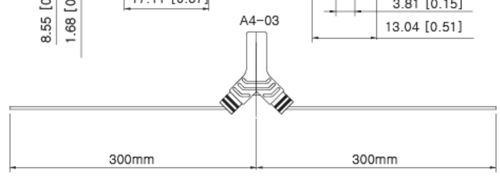








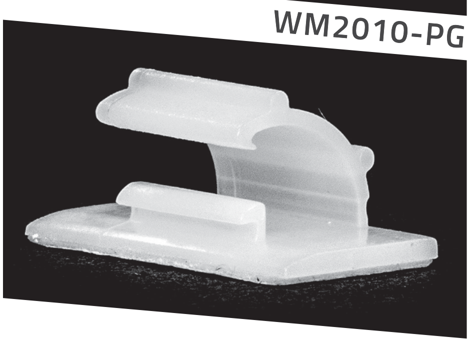




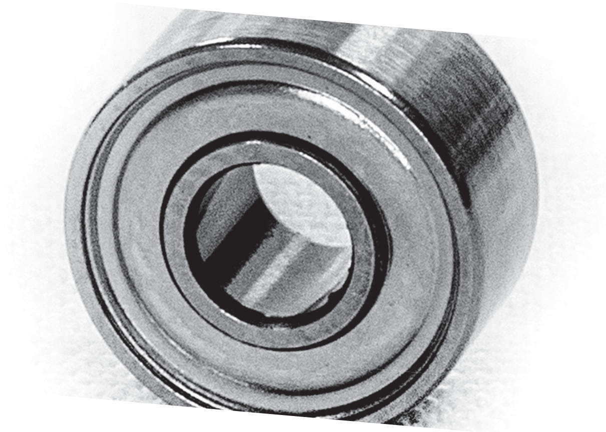
Part Number Code

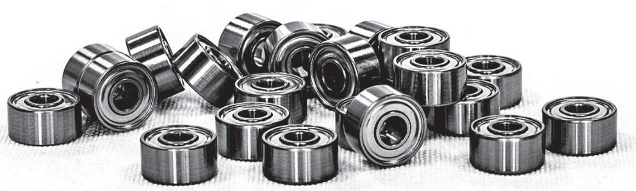
A1	03	2	US
Plug Cord Style	Length	Number of Plug Cords	Plug Type
A1: 45°	03 : 300 mm	2	US: US Plug
A2: 180°	06 : 600 mm	3	UK: UK Plug
A3: 90°	09 : 900 mm	4	EU: European Plug
A4: Y-TYPE	15 : 1500 mm	7	AU: Australian Plug

Wire Mount



Ball Bearing





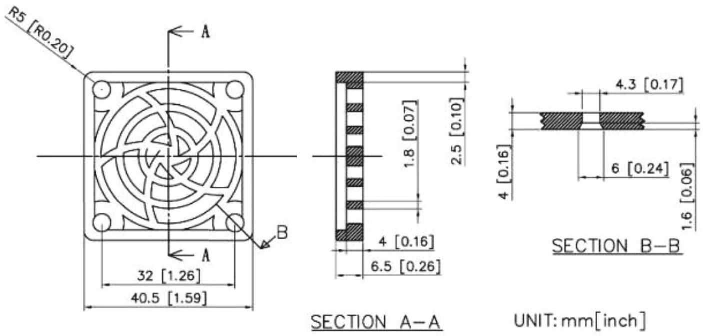
Parts & Accessories

Plastic Fan Guard (P Series)

Single Piece Plastic Fan Guard

Parts & Accessories

P40



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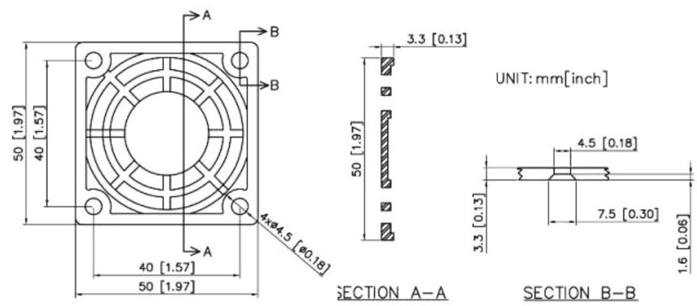

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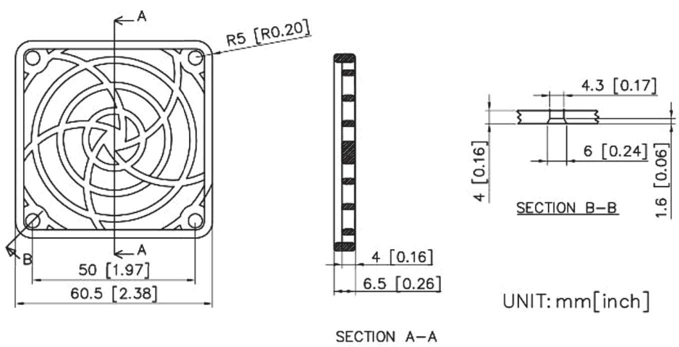

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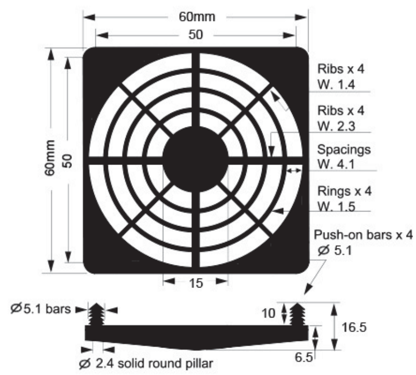

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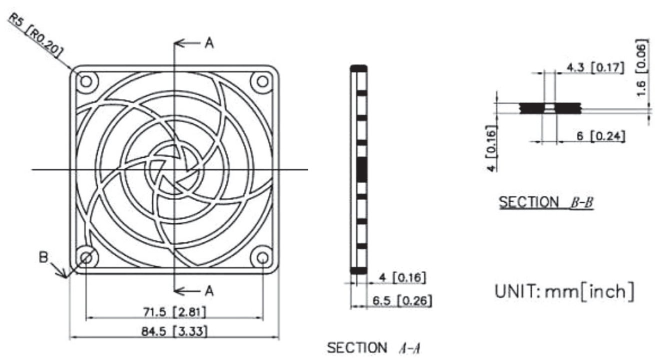

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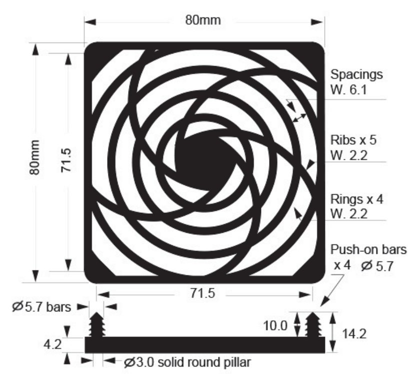

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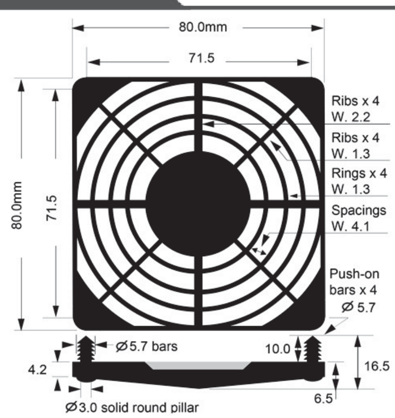

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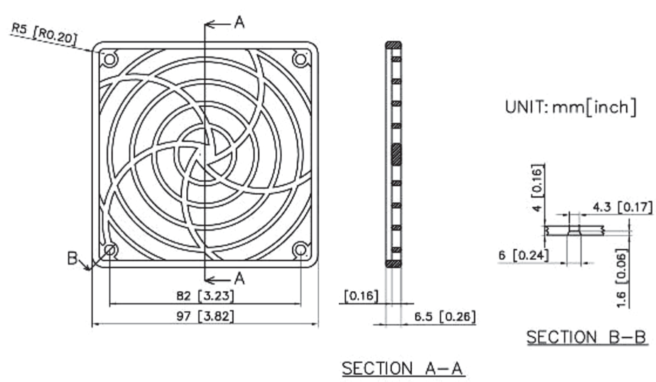

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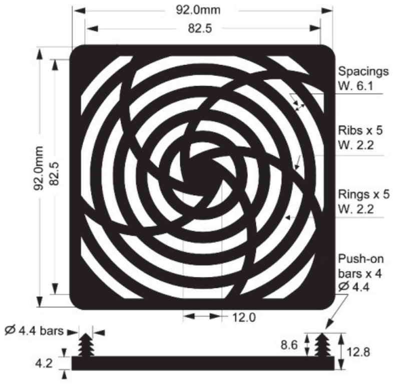
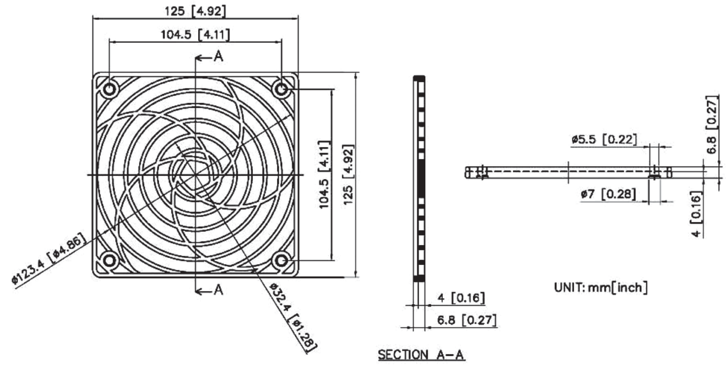
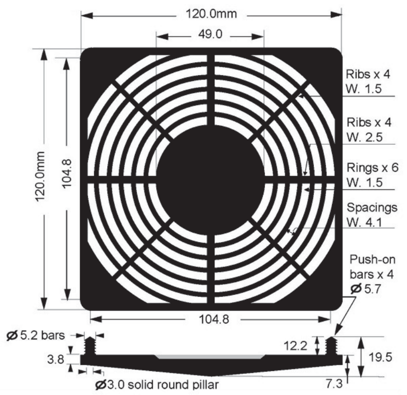
P92-1



P120



P120-2



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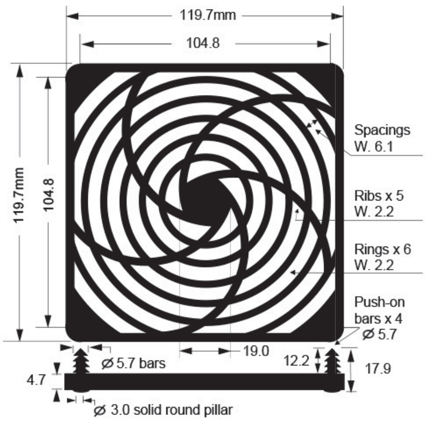

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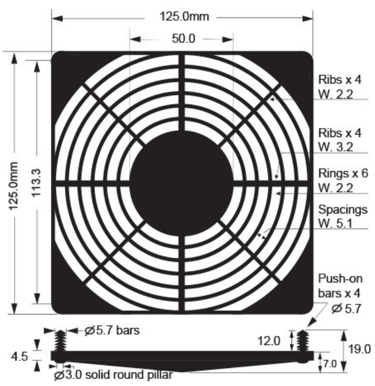

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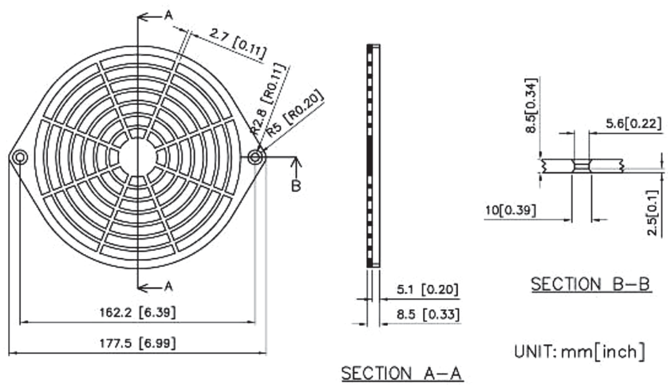

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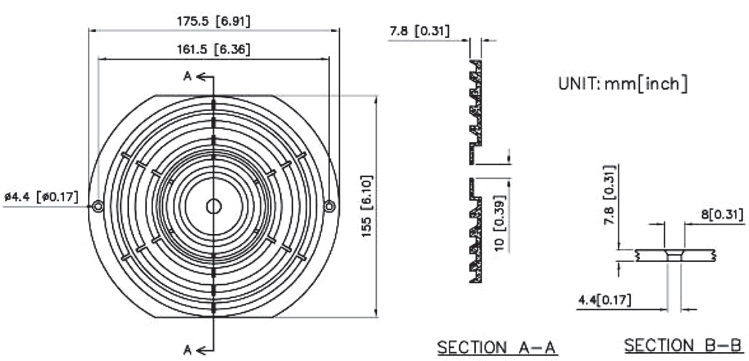
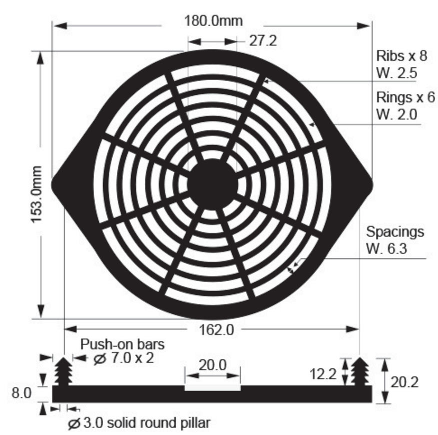


P172-1



Plastic Fan Guard (F Series)

F40

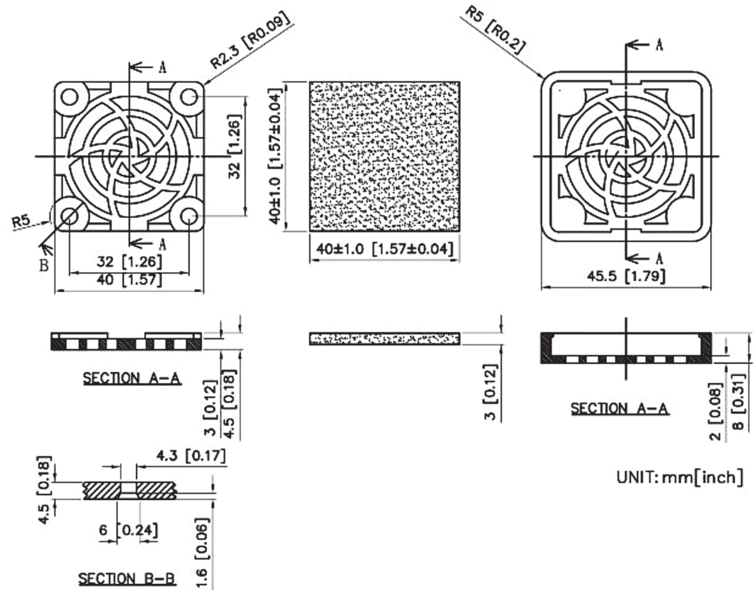
information Size : 40mm

3 Pieces Plastic Filter Guard F Series
Series : F40

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



F40-1

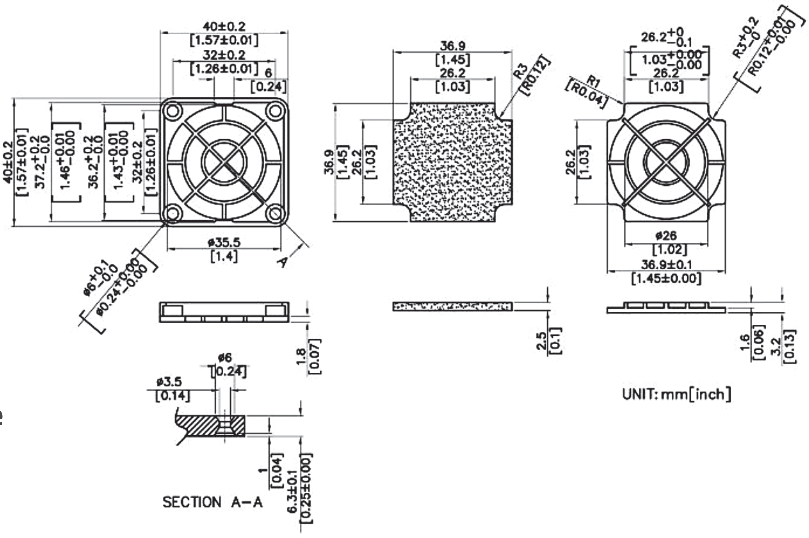
information Size : 40mm

3 Pieces Plastic Filter Guard F Series
Series : F40-1

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



F50

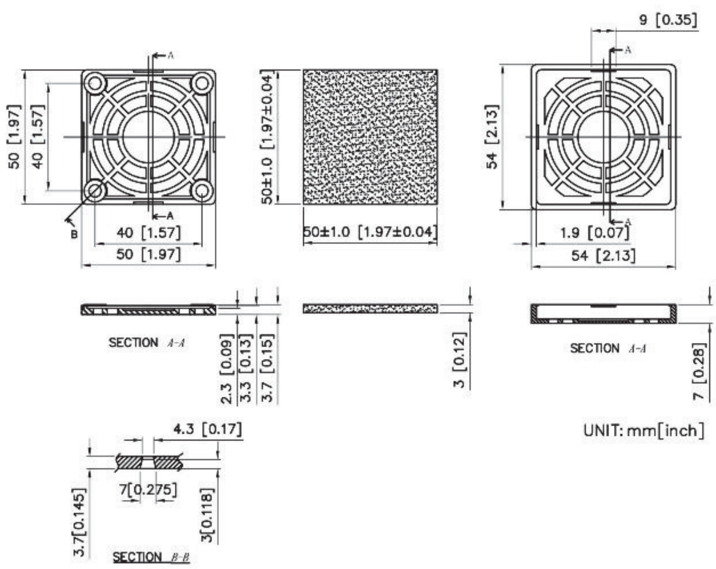
information Size : 50mm

3 Pieces Plastic Filter Guard F Series
Series : F50

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



Plastic Fan Guard (F Series)

F60

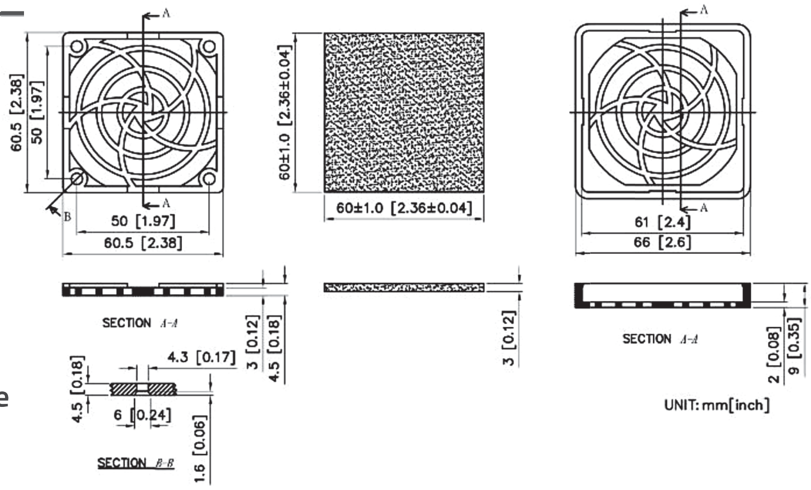
information Size : 60mm

3 Pieces Plastic Filter Guard F Series
Series : F60

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



F80

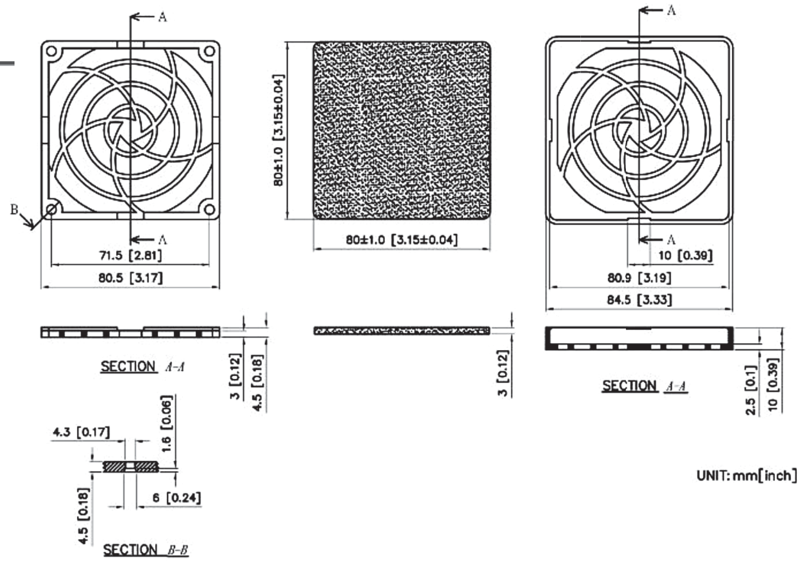
information Size : 80mm

3 Pieces Plastic Filter Guard F Series
Series : F80

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



F92

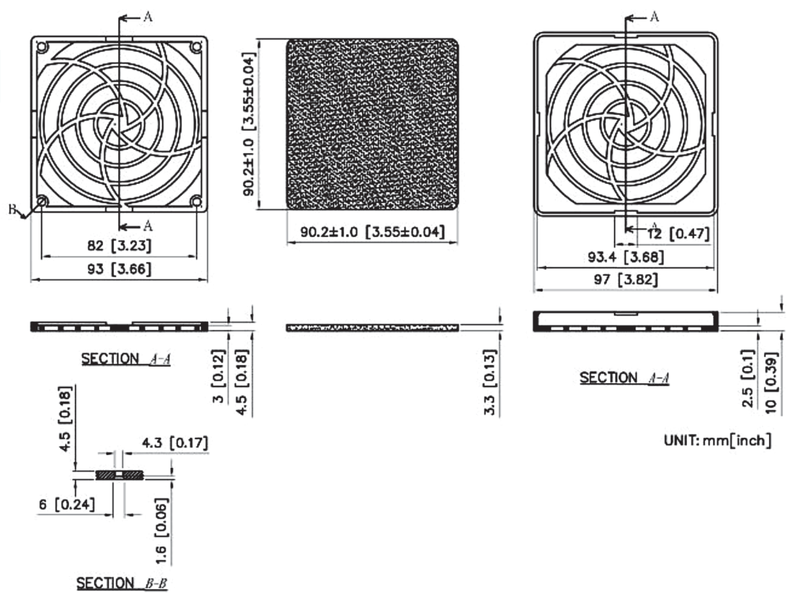
information Size : 92mm

3 Pieces Plastic Filter Guard F Series
Series : F92

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



Plastic Fan Guard (F Series)

F120

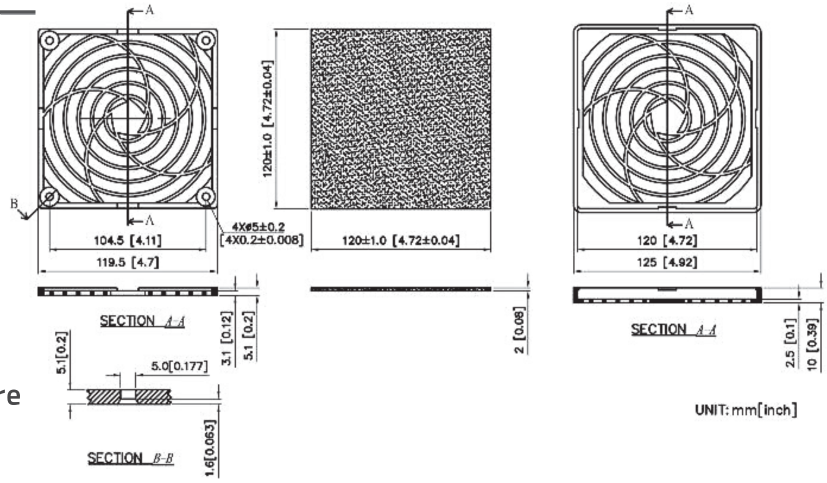
information Size : 120mm

3 Pieces Plastic Filter Guard F Series
Series : F120

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



F150

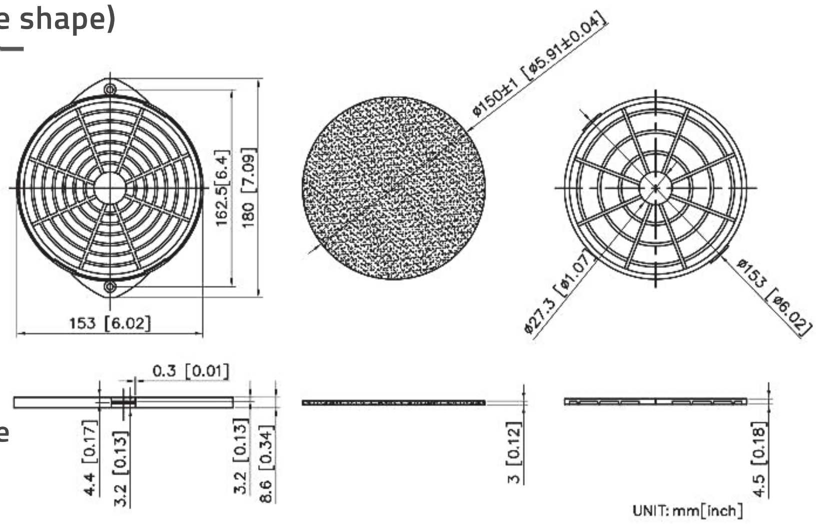
information Size : 150X172mm (eye shape)

3 Pieces Plastic Filter Guard F Series
Series : F150

Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



F172

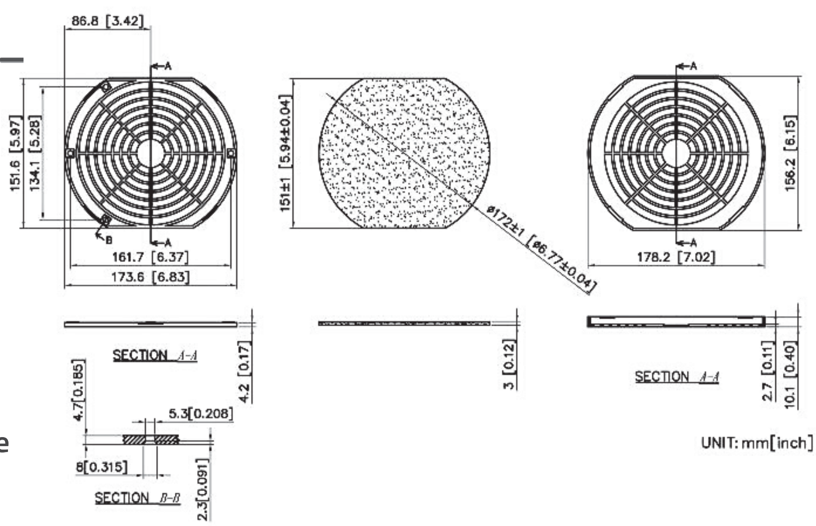
information Size : 172X150mm

3 Pieces Plastic Filter Guard F Series
Series : F172

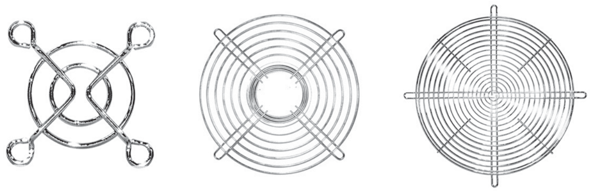
Ambient Temperature Range :
0-100°C (The Flash Point : 120°C)

Filter Material :
Sponge(black) or Non-woven textile fabrics(white)

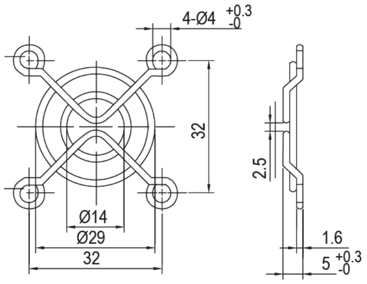
density:
30ppi for Sponge(black)
40ppi for Non-woven textile fabrics(white)
PPI = Pores Per Inch, mesh (Holes in each square Inch)



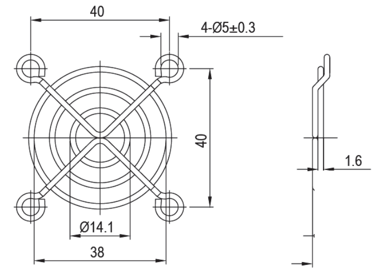
Metal Wire Fan Guard (G Series)



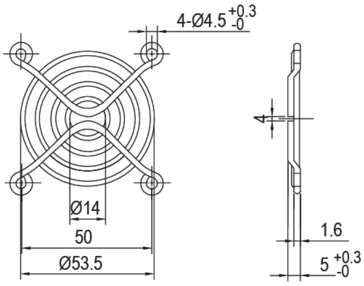
G40



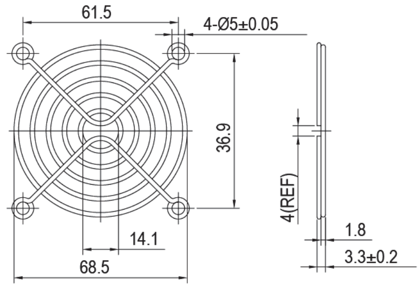
G50



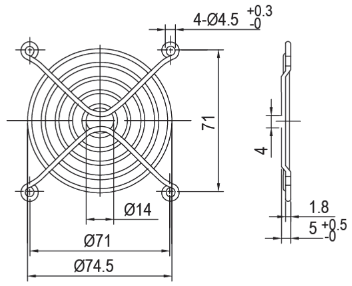
G60



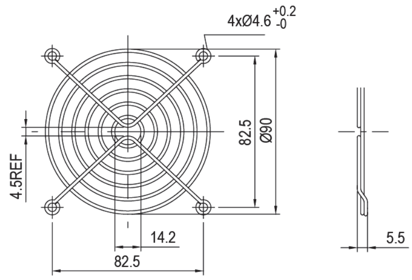
G70



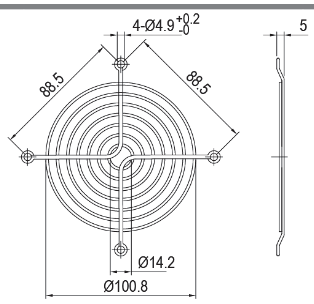
G80



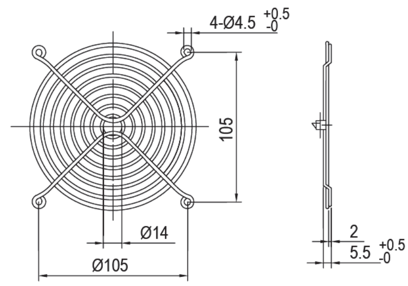
G92



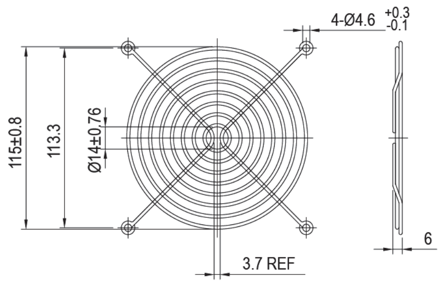
G110



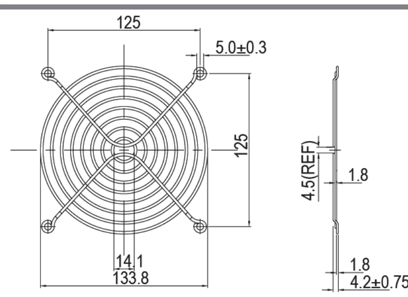
G120



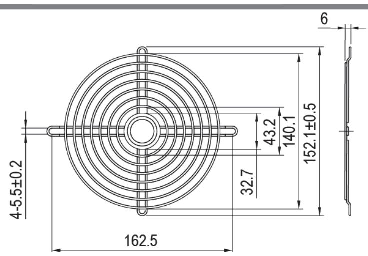
G127



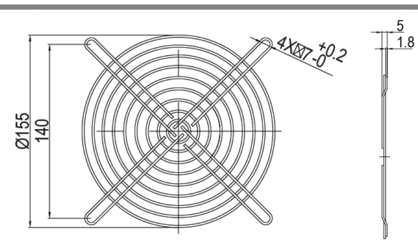
G140



G150

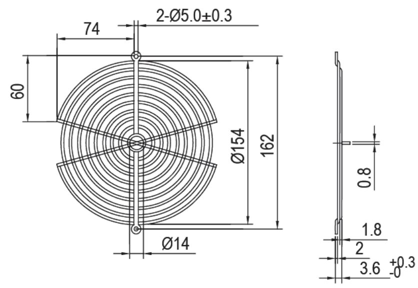


G160-B

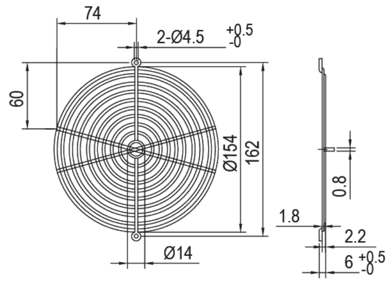


Parts & Accessories

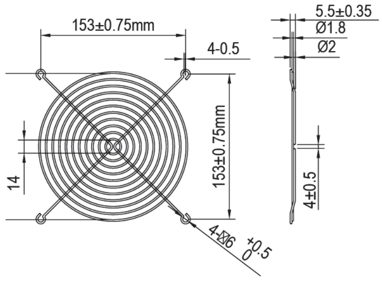
G172-1



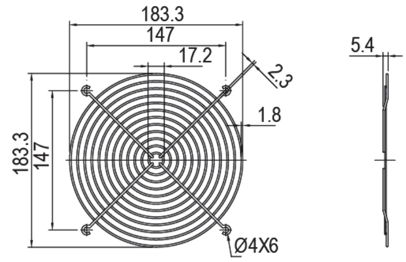
G172-2



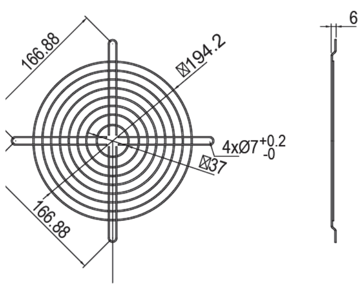
G176



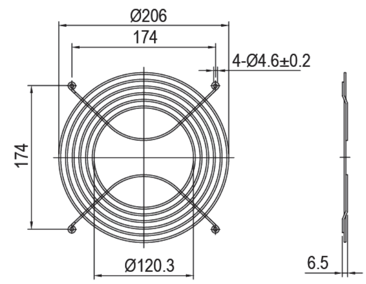
G200



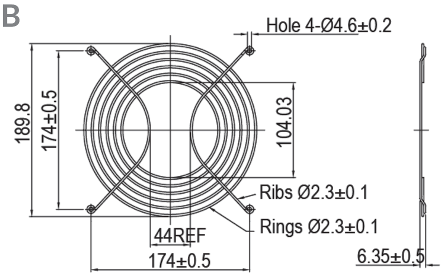
G200-YH



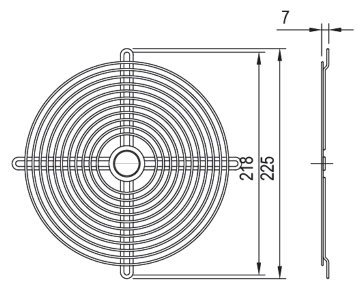
G208



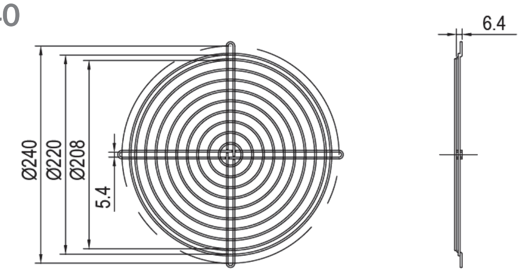
G208-B



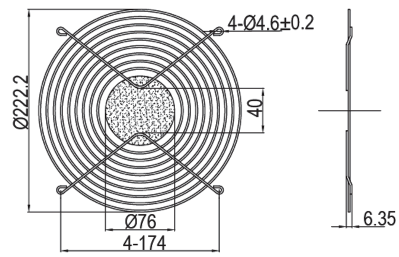
G220



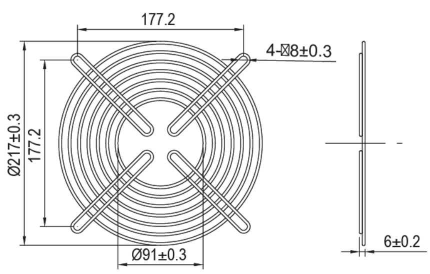
G240



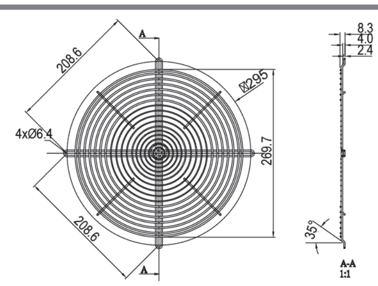
G250



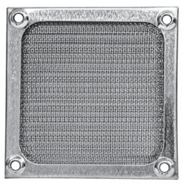
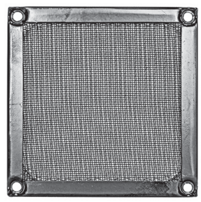
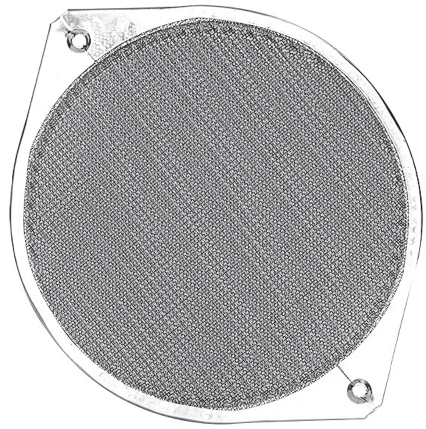
G250-2



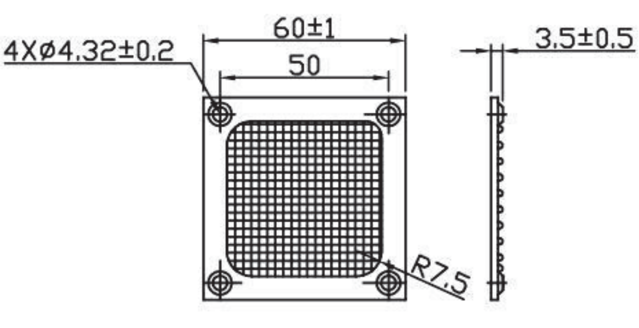
G280



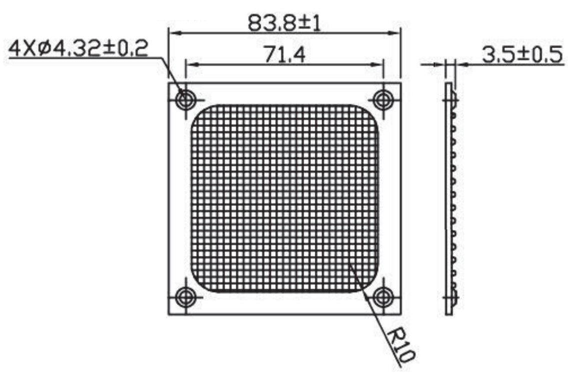
Metal Fan Guard (M Series)

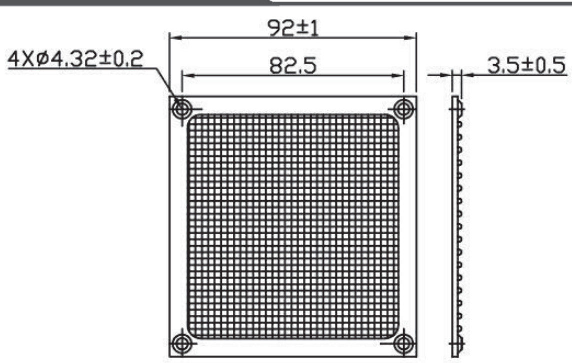
M60



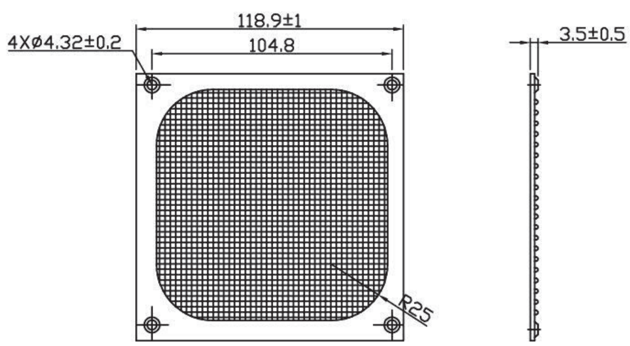
M80



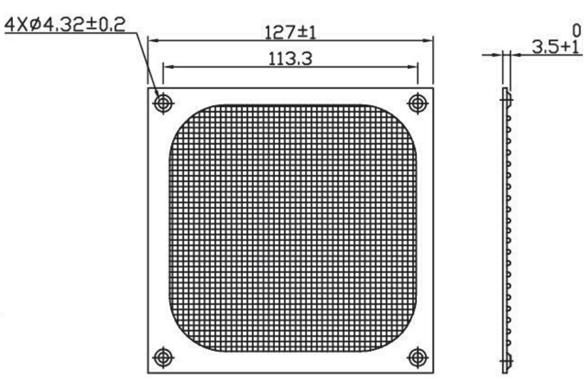
M92



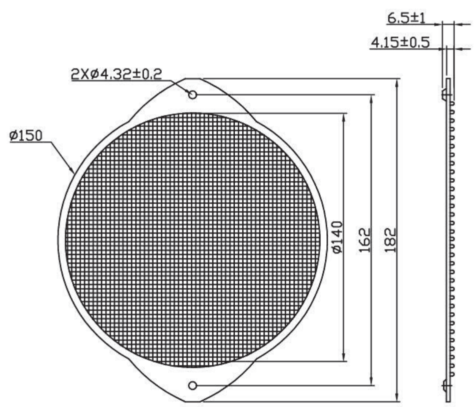
M120



M127

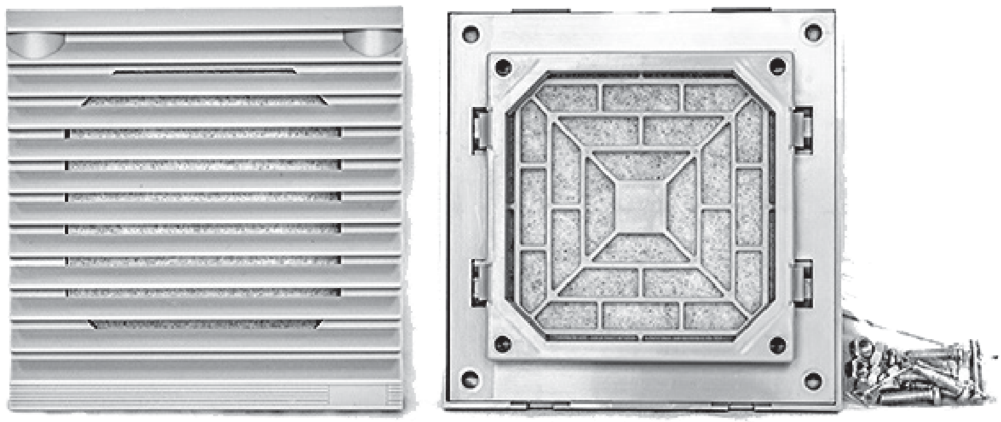


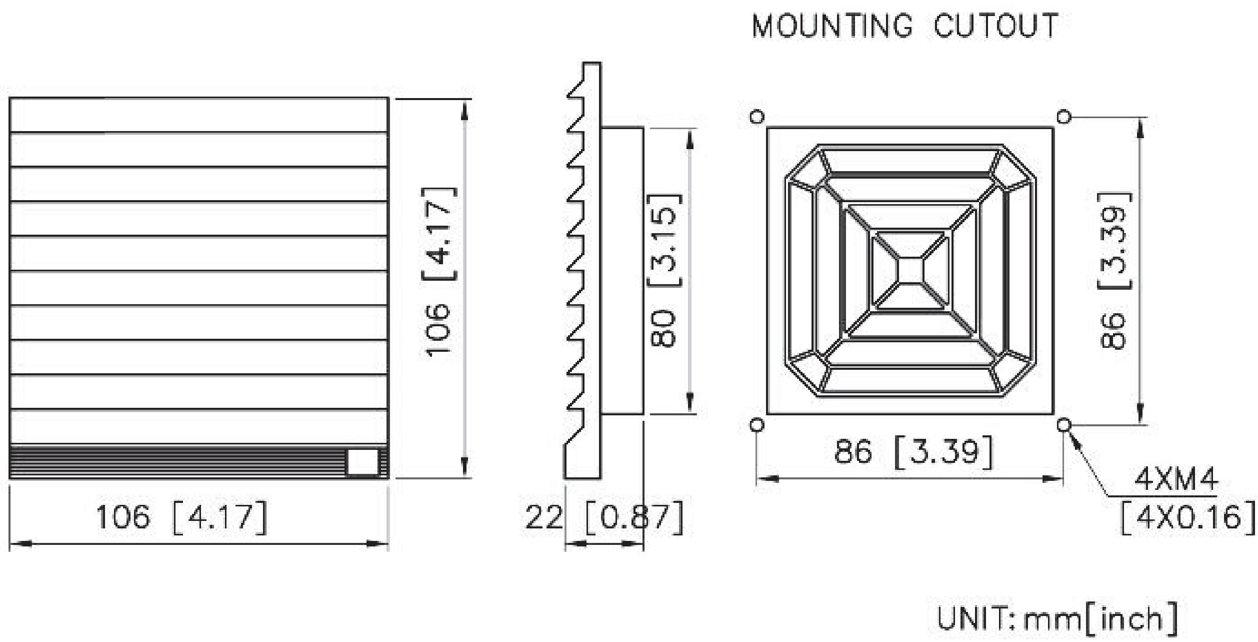
M150



Ventilator Filter Unit

FU80-B





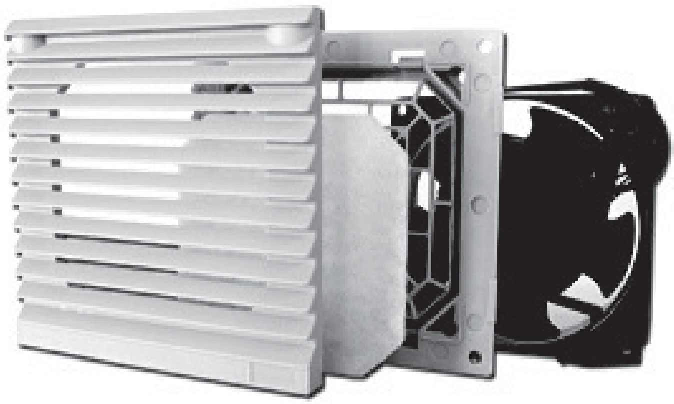
SPECIFICATION

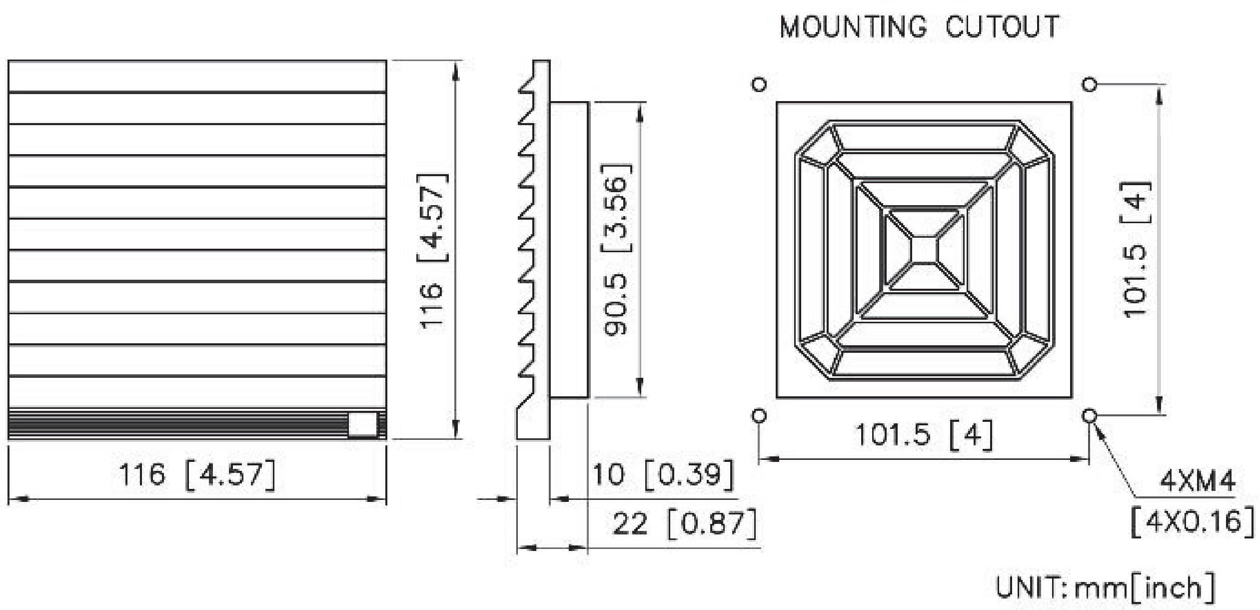
MODEL	FU80-B
DIMENSION	106x106x22mm
FILTER CASING MATERIAL	Plastic, self-extinguishing UL94V-O, UV-Resistance
FILTER MATERIAL	Nylon fiber sythrtic resin
PRESSURE LOSS	initial periad 6.7mmH20, Final stage 20mmH20
WEIGHT	60g
COMPATIBLE FAN SIZE(mm)	80x80x15; 80x80x25; 80x80x38

Super high heat ABS resin (UV-resistance) Heat distortion Temp 103 ℃. (Option)

Ventilator Filter Unit

FU92-B





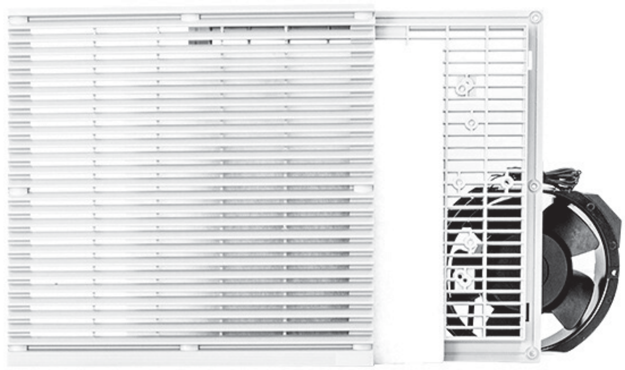
SPECIFICATION

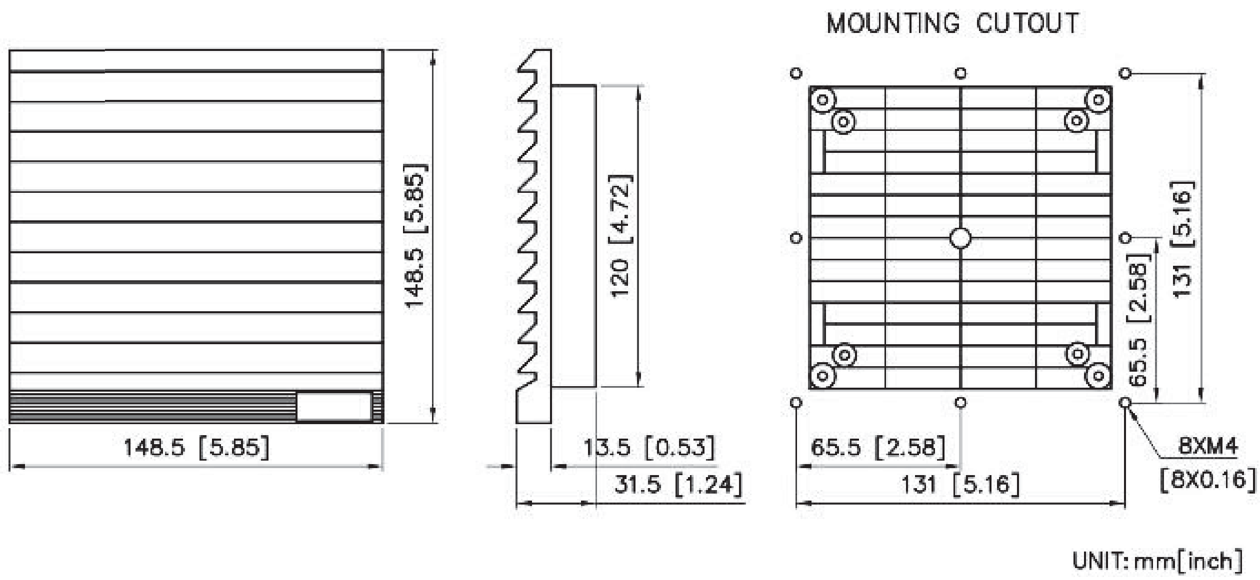
MODEL	FU92-B
DIMENSION	116x116x22mm
FILTER CASING MATERIAL	Plastic, self-extinguishing UL94V-O, UV-Resistance
FILTER MATERIAL	Nylon fiber sythrtic resin
PRESSURE LOSS	initial periad 6.7mmH20, Final stage 20mmH20
WEIGHT	107g
COMPATIBLE FAN SIZE(mm)	92x92x25; 92x92x38

Super high heat ABS resin (UV-resistance) Heat distortion Temp 103 °C. (Option)

Ventilator Filter Unit

FU120-B





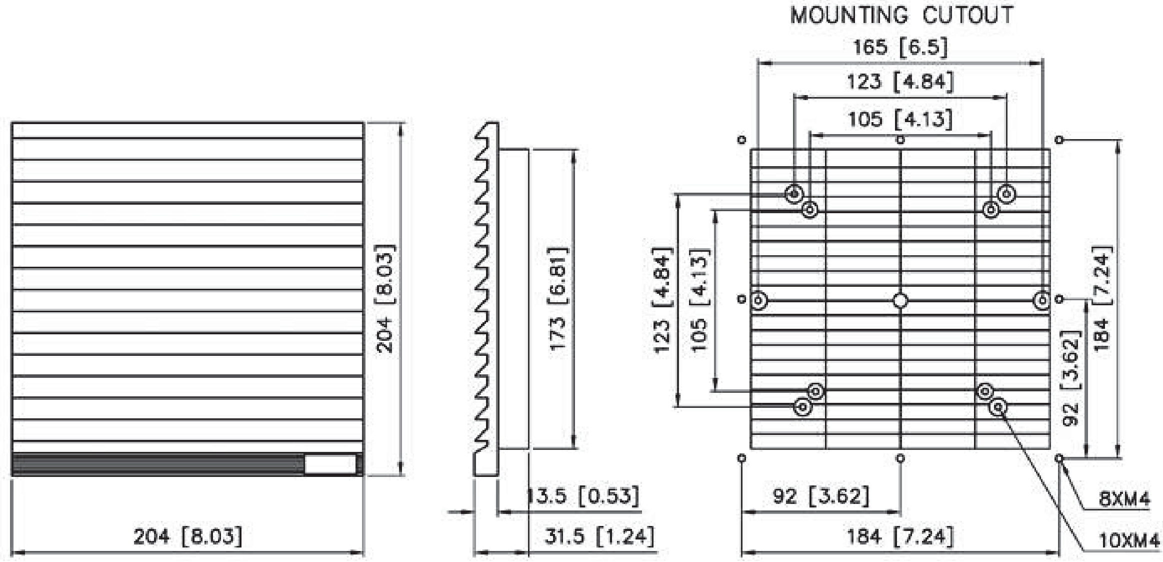
SPECIFICATION

MODEL	FU120-B
DIMENSION	148.5x148.5x31.5mm
FILTER CASING MATERIAL	Plastic, self-extinguishing UL94V-O, UV-Resistance
FILTER MATERIAL	Nylon fiber sythrtic resin
PRESSURE LOSS	initial periad 6.7mmH20, Final stage 20mmH20
WEIGHT	240g
COMPATIBLE FAN SIZE(mm)	110x110x25; 120x120x25; 120x120x32; 120x120x38

Super high heat ABS resin (UV-resistance) Heat distortion Temp 103 °C. (Option)

Ventilator Filter Unit

FU150-B



UNIT: mm[inch]

SPECIFICATION

MODEL	FU150-B
DIMENSION	204x204x31.5mm
FILTER CASING MATERIAL	Plastic, self-extinguishing UL94V-O, UV-Resistance
FILTER MATERIAL	Nylon fiber sythrtic resin
PRESSURE LOSS	initial periad 6.7mmH20, Final stage 20mmH20
WEIGHT	400g
COMPATIBLE FAN SIZE(mm)	172x150x38; 172x150x51; 172x150x55; 170x51

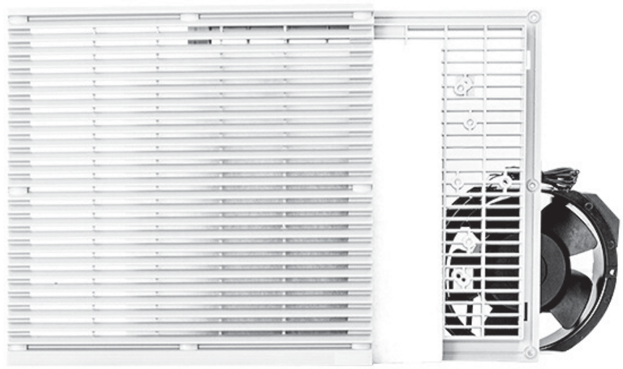
Super high heat ABS resin (UV-resistance) Heat distortion Temp 103 °C. (Option)

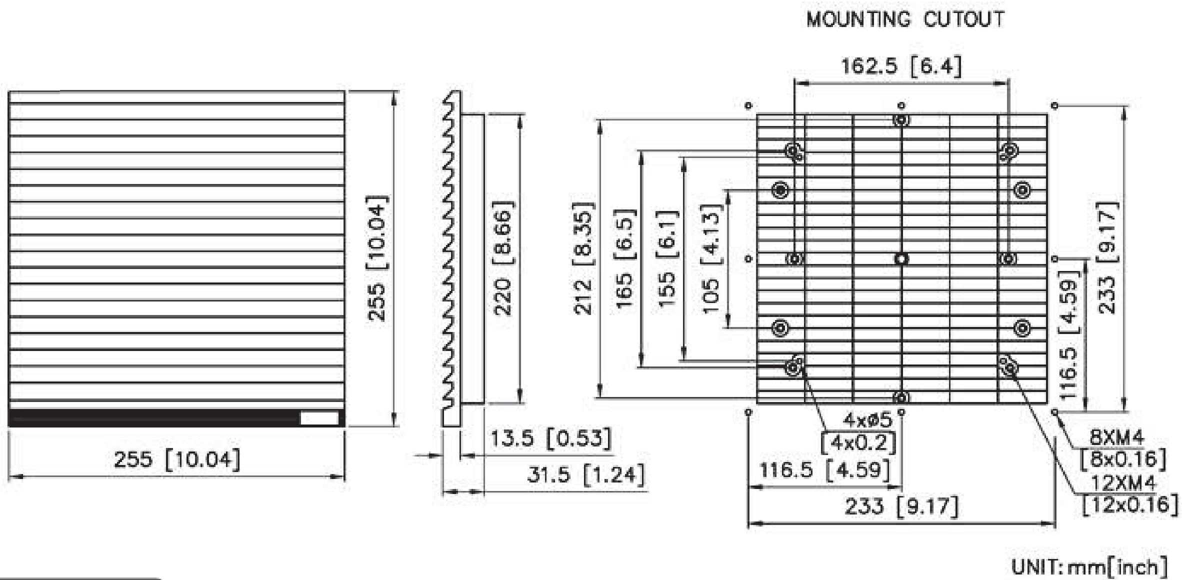
Parts & Accessories

Ventilator Filter Unit

FU172-B

Parts & Accessories





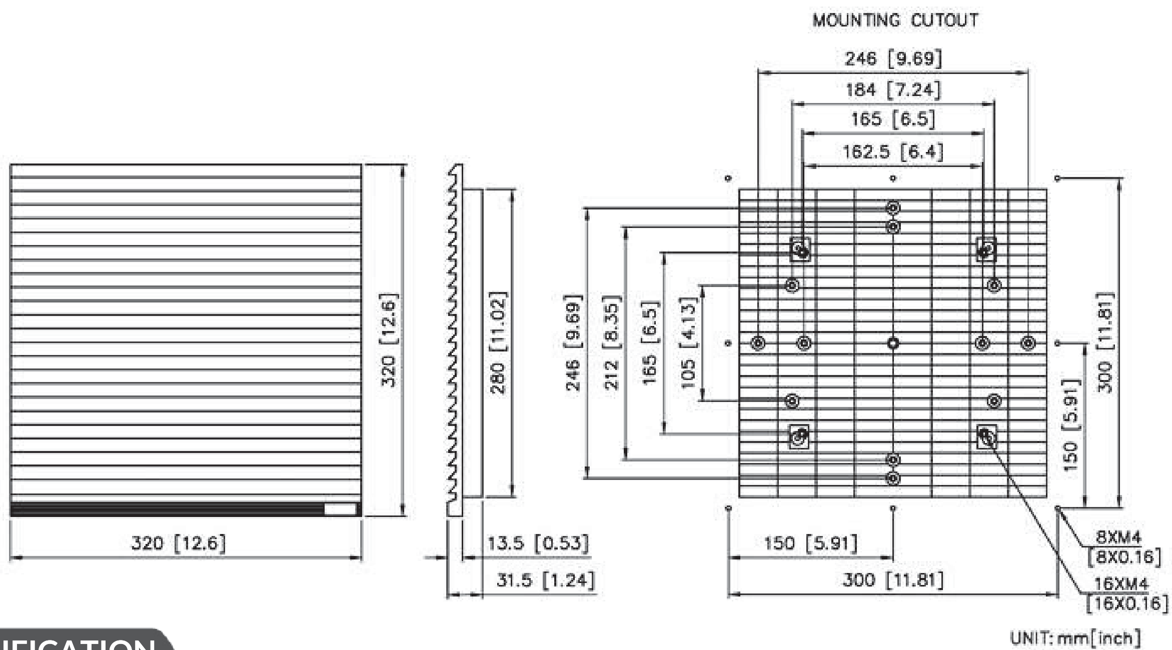
SPECIFICATION

MODEL	FU172-B
DIMENSION	255x255x31.5mm
FILTER CASING MATERIAL	Plastic, self-extinguishing UL94V-O, UV-Resistance
FILTER MATERIAL	Nylon fiber sythrtic resin
PRESSURE LOSS	initial periad 6.7mmH20, Final stage 20mmH20
WEIGHT	500g
COMPATIBLE FAN SIZE(mm)	ø172x51 or 172x151x51

Super high heat ABS resin (UV-resistance) Heat distortion Temp 103 ℃. (Option)

Ventilator Filter Unit

FU200-B



SPECIFICATION

MODEL	FU200-B
DIMENSION	320x320x31.5mm
FILTER CASING MATERIAL	Plastic, self-extinguishing UL94V-0, UV-Resistance
FILTER MATERIAL	Nylon fiber synthrtic resin
PRESSURE LOSS	Initial period 6.7 mmH2O, Final stage 20mmH2O
WEIGHT	700g
COMPATIBLE FAN SIZE(mm)	ø172x51; 172x151x51; ø254x89; ø220x60; 200x200x60

Super high heat ABS resin (UV-resistance) Heat distortion Temp 103 °C. (Option)

Thermal Interface Material

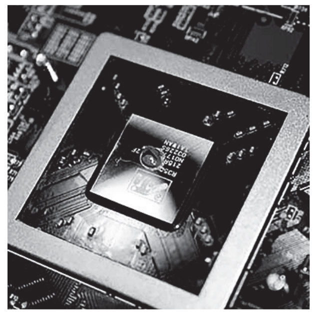
TG-AI

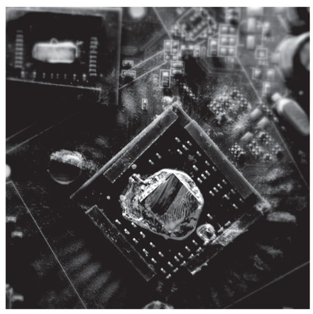
Applications

The thermal interface material can be used for the junction of the cooling modules between the chip of personal computer (PC), notebook (NB) and LED...etc.

Product ingredient

- **Aluminum oxide**
- **Silicon Oil**
- **Polymer**





Purpose

By the adhesiveness of polymer chains, the large particles of alumina powder will strung together and become aluminum chain, which can increase the heat conductivity. The small particles of alumina powder will fill the gap of contact surface.

Advantage

High Thermal Conductivity
Low Thermal Resistance
Not electric conduction
Non-corrosiveness
Non-Separation

Application Method

Spread about 0.10mm thick evenly one the surface of the chip, then cover the cooling module or LED lamp.

Specification

Appearance	Gray	**Specific Gravity:**	3.1 grams/cm3
Thermal Conductivity	2.0 W/m-K	**Viscosity (6RPM at 25℃)**	15500CP
Thermal impedance	0.038℃*cm2/W	**Bond Line Thickness**	35 μm
Volatile Content (120℃)	<0.1%	**Shelf Life**	12 months

Packing

1kg/bottle, 20bottles/carton, 21kg/carton, 55*45*18cm/carton

HSP082

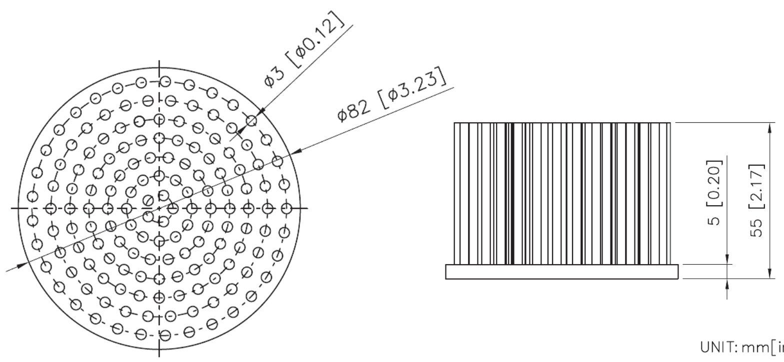
Specification

MODEL NO.	Out diameter mm	Base thickness mm	Height mm	Treatment
HSP08250B5	82	5	55	Black Anodize
HSP08250C5	82	5	55	Clean

General information

MATERIAL AL1070
TREATMENT Black anodize or clean
WEIGHT 210 g

Dimension



UNIT: mm[inch]

HSP105

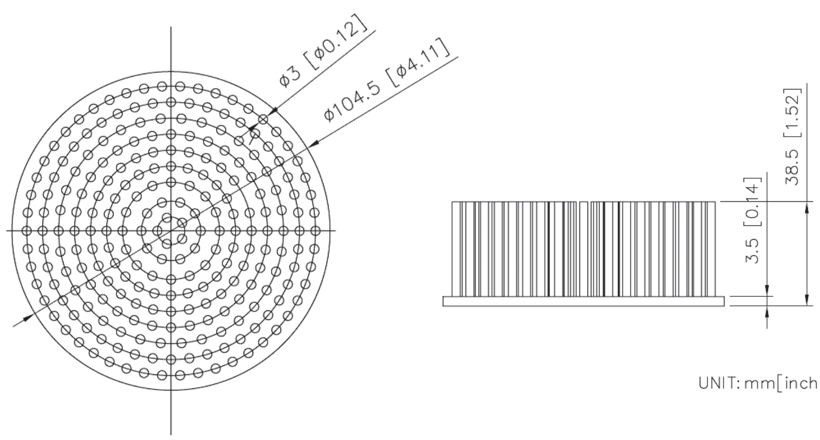
Specification

MODEL NO.	Out diameter mm	Base thickness mm	Height mm	Treatment
HSP10535B4	105	4	38.5	Black Anodize
HSP10535C4	105	4	38.5	Clean

General information

MATERIAL AL1070
TREATMENT Black anodize or clean
WEIGHT 240 g

Dimension

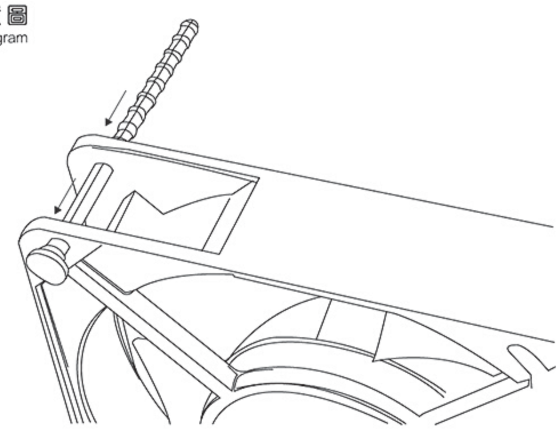


UNIT: mm[inch]

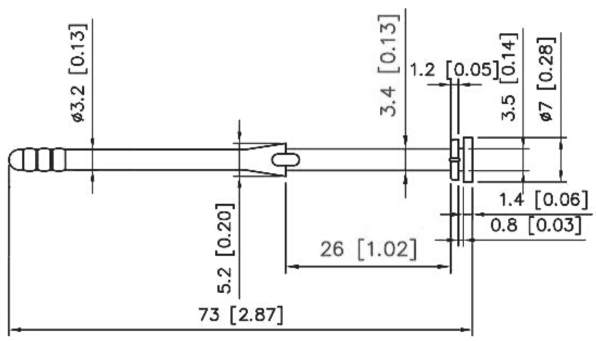
Fan Snap Rivet

CE

安裝示意圖
Installation Diagram



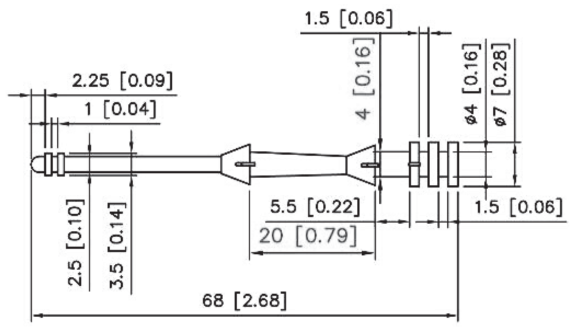
R0325-KY



FANS MOUNTING HOLE ø3.4
FANS THICNKNESS 25

UNIT: mm[inch]

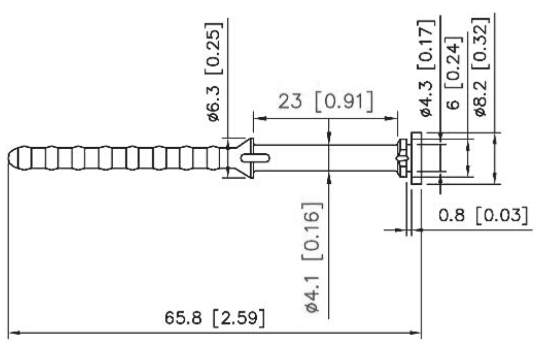
R0420-KY



FANS MOUNTING HOLE ø4.3
FANS THICKNESS 20

UNIT: mm[inch]

R0425-PG



FANS MOUNTING HOLE ø4.0
FANS THICNKNESS 25.4

UNIT: mm[inch]

PAET NUMBER CODE

R 03 25

Thickness of Suitable Fans
Screw Hole of Fans
Rivet

Rivet	Screw Hole	Thickness of Suitable Fans
R	03= Ø3mm	25mm
	04= Ø4mm	25mm

Application:fan mounting, anti-vibration and noise reduction