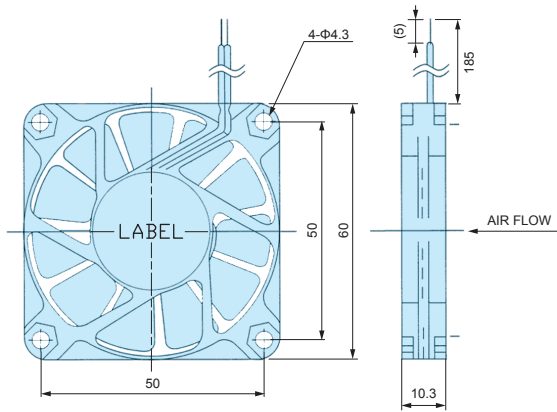


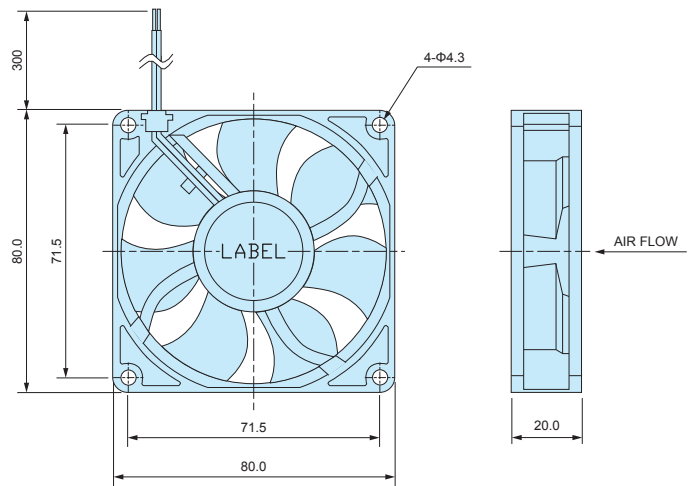
**~~HF0610-12~~**

Lead wire UL1007 AWG26

Cross out products are discontinued.

**HF0820SA-12**

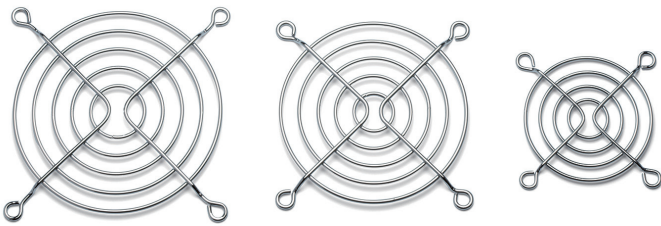
Lead wire UL3385 AWG26

**Product no. / Dimensions**

Product no.	Outer dimensions (mm)	Rated voltage (V)	Voltage range (V)	Rated current (A)	Rated input (W)	Max airflow (m3/min)	Max static pressure (pa)	Rotation speed (min-1)	Operating temperature	Life expectancy (H)
<del>HF2510AL-05</del>	<del>25.0 x 25.0 x 10.2</del>	<del>DC 5</del>	<del>4.5 ~ 5.5</del>	<del>0.15</del>	<del>0.75</del>	<del>0.048</del>	<del>18</del>	<del>8,000</del>	<del>-10 ~ +100°C</del>	<del>50,000</del>
HF0312ES-12	30.0 x 30.0 x 10.2	DC12	10.2 ~ 13.8	0.15	1.8	0.1	36	7,500	-10 ~ +100°C	50,000
<del>HF0410N-12</del>	<del>40.0 x 40.0 x 10.4</del>	<del>DC12</del>	<del>10.2 ~ 13.8</del>	<del>0.09</del>	<del>1.08</del>	<del>0.12</del>	<del>31.4</del>	<del>5,100</del>	<del>-5 ~ +60°C</del>	<del>50,000</del>
HF0510ET-12	50.0 x 50.0 x 10.0	DC12	10.2 ~ 13.8	0.25	3	0.33	33	5,600	-10 ~ +100°C	50,000
<del>HF0610-12</del>	<del>60.0 x 60.0 x 10.3</del>	<del>DC12</del>	<del>10.2 ~ 13.8</del>	<del>0.1</del>	<del>1.2</del>	<del>0.33</del>	<del>16.7</del>	<del>3,300</del>	<del>-5 ~ +60°C</del>	<del>50,000</del>
HF0820SA-12	80.0 x 80.0 x 20.0	DC12	6.0 ~ 13.2	0.13	1.56	1.13	52.8	3,700	-10 ~ +70°C	40,000

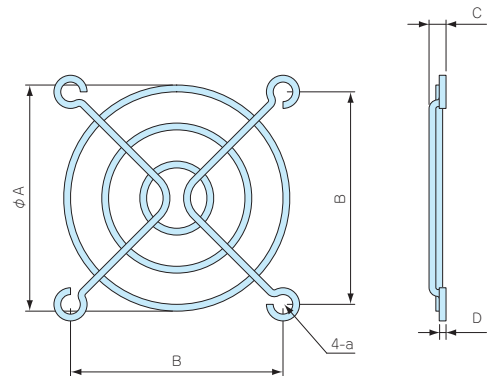
■ Life expectancy is measured under normal operational conditions.

Cross out products are discontinued.

**HF-G SERIES****FINGER GUARD**

Cross out products are discontinued.

■ Material : Steel wire

**Product no. / Dimensions**

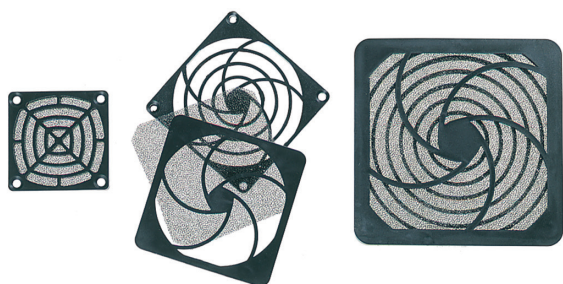
■ Shape vary by model.

Product no.	A	B	C	D	a	Finish
HF-G 30	26	24	3	1.6	M3	Chrome plated
HF-G 40	28.5	32	5	1.6	M3 and M4	Nickel plated
HF-G 50	41	40	5	1.6	M3 and M4	Nickel plated
HF-G 60	53	50	4.5	1.6	M4	Nickel plated
HF-G 80	76	71.5	5	1.8	M4	Nickel plated
HF-G 90	90	82.5	5	1.8	M4	Nickel plated
HF-G120	115.5	104.8	6	1.8	M4	Nickel plated

## HF-P SERIES

## FAN DUST FILTER

■ DXF/DWG/PDF drawings available on our website.



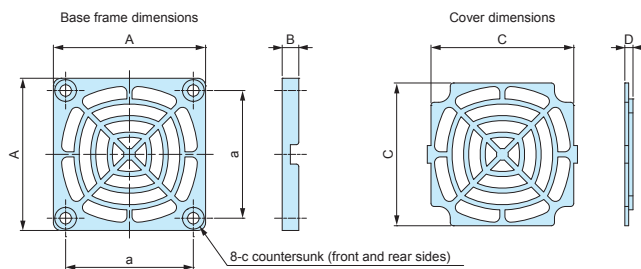
Heat  
Resistant

## Components

No.	Part name	Material	Color
1	Base frame	ABS UL94V-0	Black
2	Cover	ABS UL94V-0	Black
3	Filter	Polyurethane foam	Gray

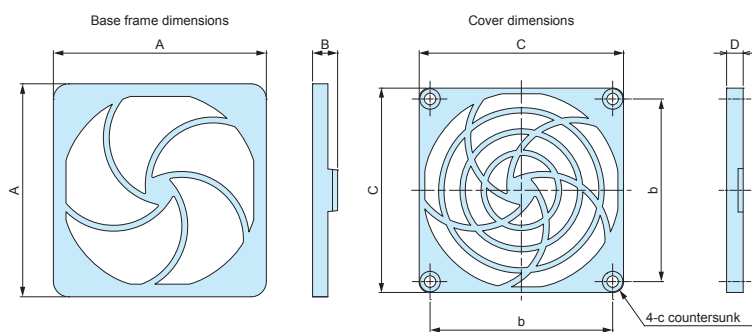
## HF-P40 • HF-P60

※Drawings for HF-P60 model



## HF-P80 • HF-P90 • HF-P120

※Drawings for HF-P80 model.



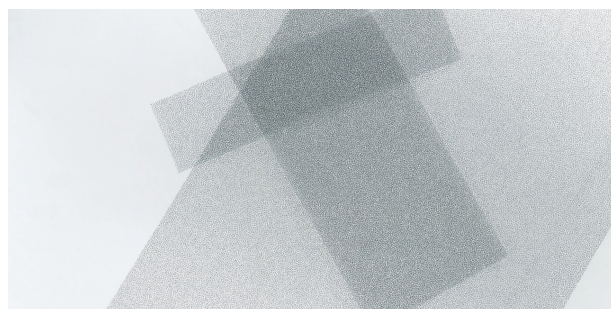
## Product no. / Dimensions

■ Shape vary by model.

Product no.	A	B	C	D	a	b	c
HF-P 40	40	6.3	37	3.2	32	—	M3
HF-P 60	59.6	6.5	55.9	3.2	50	—	M4
HF-P 80	83.4	9.8	80	6.5	—	71.5	M4
HF-P 90	96.2	9.7	92	6.3	—	82.5	M4
HF-P120	123.7	10.8	117.2	7.3	—	104.8	M4

## HR SERIES

## FILTER



- Replacement filter for HF-P filter frame.
- Can also be used as a dustproof filter over vent holes.

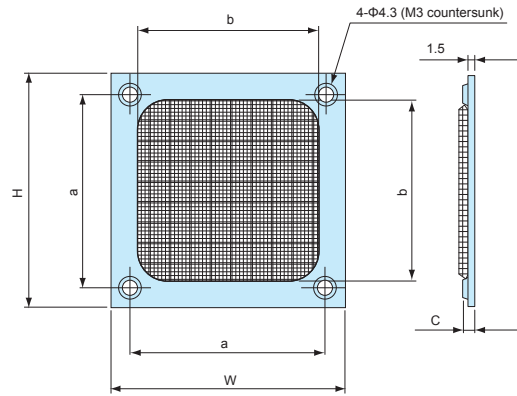
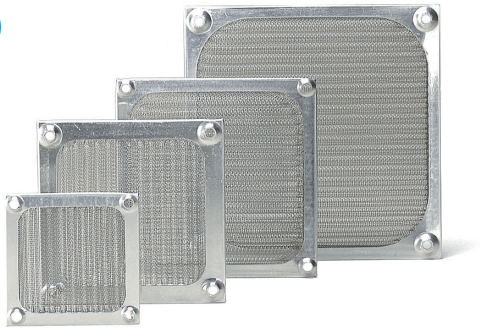
## Product no. / Dimensions

Product no.	W	H	t
HR0520	200	50	3
HR1030	300	100	3
HR2550	500	250	3

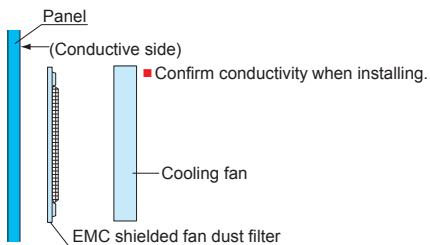
■ Material / Color : Polyurethane foam / Gray

**EMF SERIES****EMC SHIELDED FAN DUST FILTER**

EMC  
Shielding  
Effects



- Dust filter for a cooling fan hole as EMC shield purpose.

**Components**

Frame material	Filter material	Mesh
Aluminium / Unfinished	Stainless steel	30

- Mesh 30 = 30 openings in a 1 square inch area (25.4 x 25.4mm).

**Product no. / Dimensions**

Product no.	W	H	a	b	c	Matching fan size (mm)
EMF- 60	60	60	50	47	3.5	60.0 x 60.0
EMF- 80	83.8	83.8	71.5	69	3.5	80.0 x 80.0
EMF- 90	92	92	82.5	78	3.5	92.0 x 92.0
EMF-120	119	119	104.8	104.8	3.5	120.0 x 120.0

**APPLICATION EXAMPLE**