

# Kingtronics®

## FKT-MR

Metallized polypropylene film AC filter capacitors

### FEATURES

- ◆ High ripple current, high dv/dt withstand capability.
- ◆ Resistance to high voltage, with self-healing
- ◆ Low ESL and ESR
- ◆ Plastic case, epoxy resin sealing (UL 94V-0) Typical application
- ◆ Suitable for small power AC output filter, i.e. UPS, Solar Photovoltaic DC/AC inverter with LCL filter

### SPECIFICATIONS

Reference standards	GB/T17702 IEC61071
Operating Temperature	-40°C~ +105°C
Voltage Rating	250VAC, 350VAC, 425VAC, 480VAC
Rated RMS Voltage (Urms)	180VAC, 250VAC, 300VAC, 350VAC
Maximum Continuous DC Voltage	300VDC, 475VDC, 560VDC, 600VDC
Capacitance Range	4uF~ 60uF
Capacitance Tolerance	±5% (J) ±10% (K)
Insulation Resistance	≥5000S (100VDC, 25°C±5°C, 60s)
Voltage test between terminals	1.5*Un (10S 25°C±5°C)
Voltage test between terminals and case	3000V.AC (10S, 50/60Hz, 25°C±5°C)
Dissipation Factor	tgδ≤20*10 <sup>-4</sup> (25°C±5°C, 1KHz)
Max. Altitude	2000m

**Kingtronics® International Company**

Website: [www.kingtronics.com](http://www.kingtronics.com)

Email: [info@kingtronics.com](mailto:info@kingtronics.com)

Tel: (852) 8106 7033

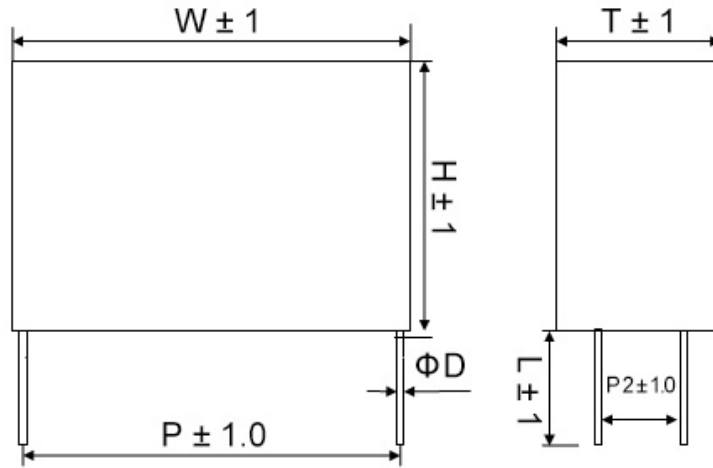
Fax: (852) 8106 7099

# Kingtronics®

# FKT-MR

Metallized polypropylene film AC filter capacitors

**DRAWING:**



**Dimensions Table for 300VDC:**

(Unit : mm)

TYPE							
CAP (uf)	W±1	L±1.0	T±1.0	H±1.0	P±1.0	P2±1.0	d Ø±0.05
4.0	32	6	13	22	27.5	--	1
5.0	32	6	14	28	27.5	--	1
6.8	32	6	18	33	27.5	--	1.2
10.0	32	6	18	33	27.5	--	1.2
10.0	41	6	17	32	37.5	--	1.2
15.0	41	6	22	37	37.5	--	1.2
18.0	42	6	23	36	37.5	--	1.2
20.0	42	6	23	36	37.5	--	1.2
22.0	41	6	26	41	37.5	--	1.2
25.0	41	6	26	41	37.5	--	1.2
30.0	42	6	30	45	37.5	--	1.2
33.0	42	6	30	45	37.5	--	1.2
40.0	57	6	29.5	43.5	52.5	--	1.2
50.0	57	6	35	50	52.5	--	1.2
60.0	57	6	35	50	52.5	--	1.2

**Kingtronics® International Company**

**Kingtronics**®**FKT-MR**

Metallized polypropylene film AC filter capacitors

**Dimensions Table for 475VDC:****(Unit : mm)**

TYPE							
CAP (uf)	W±1	L±1.0	T±1.0	H±1.0	P±1.0	P2±1.0	d Ø±0.05
1.0	32	6	9	18	27.5	--	1
1.5	32	6	11	20	27.5	--	1
2.0	32	6	13	22	27.5	--	1
2.2	32	6	13	22	27.5	--	1
2.5	32	6	13	22	27.5	--	1
3.0	32	6	15	24.5	27.5	--	1
3.3	32	6	15	24.5	27.5	--	1
3.5	32	6	14	28	27.5	--	1
4.0	32	6	18	33	27.5	--	1.2
4.5	32	6	18	33	27.5	--	1.2
4.7	41	6	15	26	37.5	--	1.2
5.0	32	6	18	33	27.5	--	1.2
5.0	42	6	14	28	37.5	--	1.2
6.0	41	6	17	32	37.5	--	1.2
6.5	41	6	17	32	37.5	--	1.2
6.8	32	6	22	37	27.5	--	1.2
6.8	41	6	18.5	33.5	37.5	--	1.2
7.5	41	6	18.5	33.5	37.5	--	1.2
8.0	41	6	22	37	37.5	--	1.2
10.0	41	6	22	37	37.5	--	1.2
12.0	41	6	26	41	37.5	--	1.2
15.0	41	6	26	41	37.5	--	1.2
18.0	41	6	28	43	37.5	--	1.2
20.0	42	6	30	45	37.5	--	1.2
22.0	42	6	30	45	37.5	--	1.2
25.0	57	6	29.5	43.5	52.5	20.3	1.2
30.0	57	6	29.5	43.5	52.5	20.3	1.2
35.0	57	6	35	50	52.5	20.3	1.2
40.0	57	6	35	50	52.5	20.3	1.2

**Kingtronics**® International Company

**Kingtronics**®**FKT-MR**

Metallized polypropylene film AC filter capacitors

Dimensions Table for 560 VDC

(Unit : mm)

TYPE							
CAP(uf)	W±1	L±1.0	T±1.0	H±1.0	P±1.0	P2±1.0	d Ø±0.05
1.0	32	6	11	20	27.5	--	1
1.5	32	6	13	22	27.5	--	1
2.0	32	6	15	24.5	27.5	--	1
2.2	32	6	15	24.5	27.5	--	1
2.5	32	6	14	28	27.5	--	1
3.0	32	6	18	33	27.5	--	1.2
3.0	41	6	15	26	37.5	--	1.2
3.3	32	6	18	33	27.5	--	1.2
3.3	41	6	15	26	37.5	--	1.2
3.5	32	6	18	33	27.5	--	1.2
3.5	42	6	14	28	37.5	--	1.2
4.0	32	6	18	33	27.5	--	1.2
4.0	41	6	17	32	37.5	--	1.2
4.5	41	6	17	32	37.5	--	1.2
4.7	32	6	22	37	27.5	--	1.2
4.7	41	6	17	32	37.5	--	1.2
5.0	32	6	22	37	27.5	--	1.2
5.0	41	6	18.5	33.5	37.5	--	1.2
6.0	41	6	18.5	33.5	37.5	--	1.2
6.8	32	6	22	37	27.5	--	1.2
6.8	41	6	22	37	37.5	--	1.2
8.0	41	6	22	37	37.5	--	1.2
10.0	41	6	26	41	37.5	--	1.2
12.0	41	6	28	43	37.5	--	1.2
15.0	42	6	30	45	37.5	--	1.2
18.0	57	6	29.5	43.5	52.5	20.3	1.2
20.0	57	6	29.5	43.5	52.5	20.3	1.2
22.0	57	6	29.5	43.5	52.5	20.3	1.2
25.0	57	6	35	50	52.5	20.3	1.2
28.0	57	6	35	50	52.5	20.3	1.2

**Kingtronics**® International CompanyWebsite: [www.kingtronics.com](http://www.kingtronics.com)Email: [info@kingtronics.com](mailto:info@kingtronics.com)

Tel: (852) 8106 7033

Fax: (852) 8106 7099



**Kingtronics**®**FKT-MR**

Metallized polypropylene film AC filter capacitors

**Dimensions Table for 600 VDC****(Unit : mm)**

TYPE							
CAP (uf)	W±1	L±1.0	T±1.0	H±1.0	P±1.0	P2±1.0	d Ø±0.05
0.3	32	6	9	18	27.5	--	0.8
0.4	32	6	9	18	27.5	--	0.8
0.5	32	6	9	18	27.5	--	0.8
0.7	32	6	11	20	27.5	--	0.8
0.8	32	6	13	22	27.5	--	0.8
1.0	32	6	13	22	27.5	--	0.8
1.0	41	6	11	22	37.5	--	1
1.5	32	6	15	24.5	27.5	--	0.8
1.5	41	6	13	24	37.5	--	1
2.0	32	6	16	30	27.5	--	0.8
2.0	41	6	15	26	37.5	--	1
2.2	32	6	16	30	27.5	--	0.8
2.2	41	6	15	26	37.5	--	1
2.5	32	6	18	30	27.5	--	1
2.5	41	6	16	30	37.5	--	1
3.0	32	6	22	37	27.5	--	1
3.0	41	6	16	30	37.5	--	1
3.3	32	6	22	37	27.5	--	1
3.3	41	6	17	32	37.5	--	1
3.5	32	6	22	37	27.5	--	1
3.5	41	6	17	32	37.5	--	1
4.0	32	6	22	37	27.5	--	1
4.0	41	6	18.5	33.5	37.5	--	1
4.5	41	6	22	37	37.5	--	1
5.0	41	6	22	37	37.5	--	1
5.5	41	6	22	37	37.5	--	1
6.0	41	6	26	41	37.5	--	1
6.5	41	6	26	41	37.5	--	1
7.0	41	6	26	41	37.5	--	1
7.5	41	6	26	41	37.5	--	1
8.0	41	6	26	41	37.5	--	1
8.5	41	6	28	43	37.5	--	1
9.0	41	6	28	43	37.5	--	1
9.5	41	6	30	45	37.5	--	1

**Kingtronics**® International CompanyWebsite: [www.kingtronics.com](http://www.kingtronics.com)Email: [info@kingtronics.com](mailto:info@kingtronics.com)

Tel: (852) 8106 7033

Fax: (852) 8106 7099

# Kingtronics®

# FKT-MR

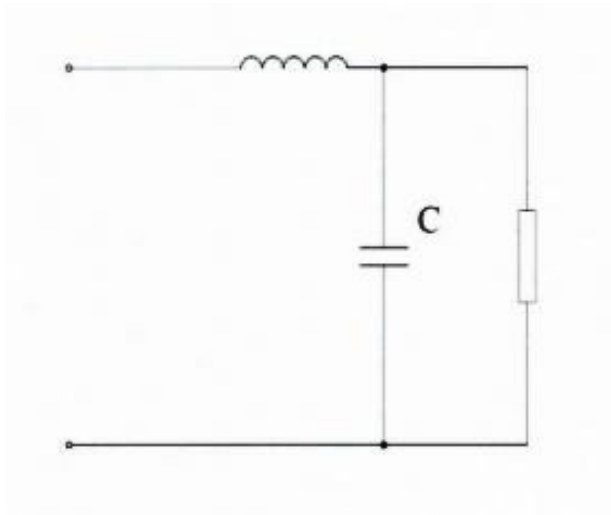
Metallized polypropylene film AC filter capacitors

## Dimensions Table for 600 VDC

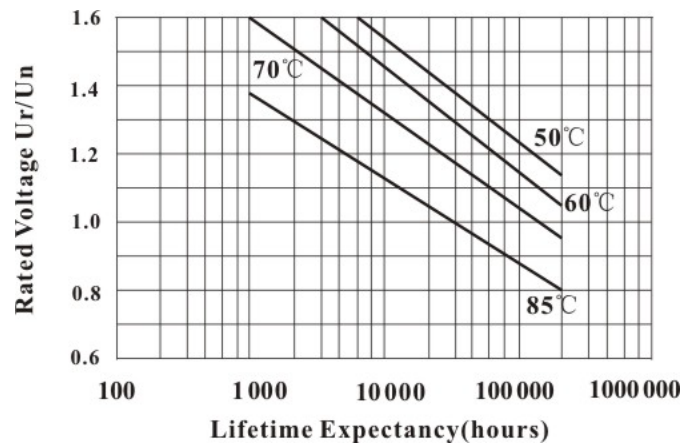
(Unit : mm)

TYPE							
CAP(uf)	W±1	L±1.0	T±1.0	H±1.0	P±1.0	P2±1.0	d Ø±0.05
10.0	41	6	30	45	37.5	--	1
10.0	57	6	25	45	52.5	--	1.2
10.0	57	6	30	45	52.5	20.3	1.2
11.0	57	6	25	45	52.5	--	1.2
12.0	57	6	29.5	45	52.5	20.3	1.2
15.0	57	6	35	45	52.5	20.3	1.2
16.0	57	6	35	45	52.5	20.3	1.2
18.0	57	6	35	50	52.5	20.3	1.2
20.0	57	6	35	50	52.5	20.3	1.2
20.0	57	6	40	50	52.5	20.3	1.2
21.0	57	6	40	50	52.5	20.3	1.2
25.0	57	6	45	55	52.5	20.3	1.2
27.0	57	6	45	55	52.5	20.3	1.2
30.0	57	6	45	65	52.5	20.3	1.2

## Typical circuit



## Expected lifetime curve



Please contact us for special item or size not listed .

**Kingtronics® International Company**

Website: [www.kingtronics.com](http://www.kingtronics.com) Email: [info@kingtronics.com](mailto:info@kingtronics.com) Tel: (852) 8106 7033 Fax: (852) 8106 7099

**Kingtronics**®**FKT-MR**

Metallized polypropylene film AC filter capacitors

**HOW TO ORDER**

<b>FKT</b>	<b>MR</b>	<b>2G</b>	<b>105</b>	<b>K</b>	<b>275</b>	<b>000</b>	<b>B</b>	<b>R</b>
Series	Sub Series	Voltage	Capacitance	Capacitance Tolerance	Pitch	Lead Length	Packing	Pb
		1.	2.	3.	4.	5.	6.	7.

**NOTE:****1. Voltage**

Code	1H	1J	2A	2C	2D	2E	2G	2J	3A	3C	3D	3F
Voltage	50V	63V	100V	160V	200V	250V	400V	630V	1000V	1600V	2000V	3000V
Code	E2	P2	Q1	Q2	Q3	G2						
Voltage	250	275	300	305	310	400						
	VAC	VAC	VAC	VAC	VAC	VAC						

**2. Capacitance**

Code	102	103	104	105	106	222	223	224	225
Capacitance	1000pF	0.01μF	0.1μF	1μF	10μF	2200pF	0.022μF	0.22μF	2.2μF
Code	332	333	334	472	473	474	682	683	684
Capacitance	3300pF	0.033μF	0.33μF	4700pF	0.047μF	0.47μF	6800pF	0.068μF	0.68μF

**3. Capacitance Tolerance**

Code	J	K	M
Tolerance	±5%	±10%	±20%

**4. Pitch**

Code	035	040	050	075	100	150	200	225	275
Pitch (mm)	3.5	4.0	5.0	7.5	10.0	15.0	20.0	22.5	27.5

**5. Lead Length**

Code	000	035	040	045	050
Lead Length	Standard	3.5	4.0	4.5	5.0

**6. Packing**

Code	A	B
Packing	Ammo	Bulk

**7. Pb**

Code	R
Pb	RoHS

Note: Specifications are subject to change without notice.

**Kingtronics**® International CompanyWebsite: [www.kingtronics.com](http://www.kingtronics.com)Email: [info@kingtronics.com](mailto:info@kingtronics.com)

Tel: (852) 8106 7033

Fax: (852) 8106 7099