

# Metallized Polypropylene Film Capacitors

Series Code  
17, 22, 112

## MPP-AC

### Main Application

This series is specially designed for energy meter applications, voltage dropper, capacitive power supply, etc.

### Construction

Low inductive wound cell of metallized polypropylene film coated with flame retardant epoxy resin or encased in flame retardant box.

### Climatic Category

40/100/56

### Rated and Maximum Operating Temperature

85°C and 100°C

### Applicable Specification

IEC 384-17

### Capacitance Value

0.01µF – 2.2µF

### Capacitance Tolerance

±2.5%, ±5%, ±10%

### Insulation Resistance

Minimum Insulation Resistance  $R_{IS}$  (or) time constant  $T = C_R \times R_{IS}$  (at 100VDC, temp 25°C, relative humidity ≤ 70%)

$C_R \leq 0.33 \mu F$   
100000 MΩ

$C_R > 0.33 \mu F$   
30000s

### Rated Voltage

275VAC- 440VAC

### Voltage Proof

Between the terminals 1250VDC for 2 sec.

### Tan δ

Frequency	$C_R < 0.1 \mu F$	$0.1 \mu F \leq C_R \leq 1 \mu F$	$C_R > 1 \mu F$
1 kHz	0.08%	0.10%	0.1%
10 kHz	0.10%	0.15%	-

### Life Test Conditions

(Loading at elevated temperature)

Loaded at 1.25 times of rated voltage at 70°C for 1000 hours.

### After the Test

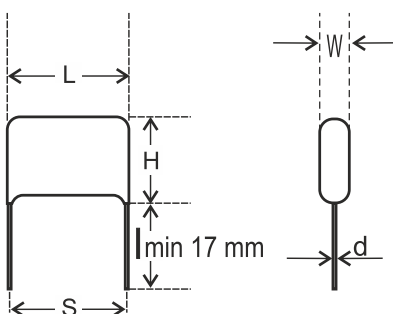
$\Delta C/C: \leq 10\%$  of initial value.

Increase of Tan δ:  $\leq 0.005$ ;  $C_R \leq 1 \mu F$

Insulation resistance:  $\geq 50\%$  of the value mentioned in IR chart.

### Ordering code and packing units: Metallized Polypropylene Film Capacitors (MPP-AC) Dip Type • Series Code 17

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)						DV/DT V/µs	Ordering code	Packing units Bulk
		W (max)	H (max)	L (max)	d ±0.05	S ±0.75				
275VAC	0.1	6.0	11.00	13.0	0.6	10.0	400	17 104 +03^A	500	
	1.0	8.0	17.00	31.0	0.8	27.5	150	17 105 +03^A	100	
	2.2	12.0	21.00	31.0	0.8	27.5	150	17 225 +03^A	100	
305VAC	0.1	6.5	12.50	13.0	0.6	10.0	475	17 104 +03^A	500	
	1.0	10.0	19.00	31.0	0.8	27.5	150	17 105 +03^A	100	
	2.2	14.0	23.00	31.0	0.8	27.5	150	17 225 +03^A	100	
310VAC	0.1	6.5	12.50	13.0	0.6	10.0	475	17 104 +05^A	500	
	1.0	10.0	19.00	31.0	0.8	27.5	150	17 105 +05^A	100	
	2.2	14.0	23.00	31.0	0.8	27.5	150	17 225 +05^A	100	
440VAC	0.1	7.0	13.00	19.0	0.8	15.0	340	17 104 +06^A	500	
	1.0	13.0	23.00	27.0	0.8	22.5	170	17 105 +06^A	100	
	2.2	20.0	29.00	31.0	0.8	27.5	150	17 225 +06^A	100	



# Metallized Polypropylene Film Capacitors

MPP-AC • Series Code 17, 22, 112

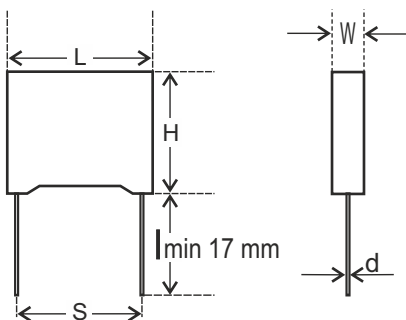


## Ordering code and packing units: Metallized Polypropylene Film Capacitors (MPP-AC) Dip Type • Series Code 112

Rated Voltage	Rated Cap. (µF)	W (max)	H (max)	Dimensions (mm)			Wt g	Ordering code	Packing units Bulk
				L (max)	d ±0.05	S ±0.75			
250VAC	0.01	6	11	10.5	0.5	7.5	1.2	112 103 + 02 ^A	500
	0.033	6	11	10.5	0.5	7.5	1.3	112 333 + 02 ^A	500
	0.047	6	11	10.5	0.5	7.5	1.3	112 473 + 02 ^A	500
	0.068	7	11	10.5	0.5	7.5	1.5	112 683 + 02 ^A	500
275VAC	0.01	6	11	10.5	0.5	7.5	1.2	112 103 + 03 ^A	500
	0.022	6	11	10.5	0.5	7.5	1.3	112 223 + 03 ^A	500
	0.1	7	12	10.5	0.5	7.5	1.6	112 104 + 03 ^A	500
305VAC	0.01	6	11	10.5	0.5	7.5	1.2	112 103 + 04 ^A	500
	0.033	6	11	10.5	0.5	7.5	1.3	112 333 + 04 ^A	500
	0.047	7	12	10.5	0.5	7.5	1.5	112 473 + 04 ^A	500
	0.068	8	12	10.5	0.5	7.5	1.9	112 683 + 04 ^A	500
310VAC	0.01	6	12	10.5	0.5	7.5	1.2	112 103 + 05 ^A	500
	0.033	6	12	10.5	0.5	7.5	1.3	112 333 + 05 ^A	500
	0.047	7	12	10.5	0.5	7.5	1.5	112 473 + 05 ^A	500
	0.068	8	12	10.5	0.5	7.5	1.9	112 683 + 05 ^A	500
440VAC	0.01	6	12	10.5	0.5	7.5	1.2	112 103 + 06 ^A	500
	0.022	8	12	10.5	0.5	7.5	1.4	112 223 + 06 ^A	500

## Ordering code and packing units: Metallized Polypropylene Film Capacitors (MPP-AC) Box Type • Series Code 22

Rated Voltage	Rated Cap. (µF)	W ±0.5	H ±0.5	Dimensions (mm)			DV/DT V/µs	Ordering code	Packing units Bulk
				L ±0.5	d ±0.05	S ±0.75			
275VAC	0.1	5	11.0	13.0	0.6	10.0	400	22 104 +03^A	500
	1.0	10	18.5	26.5	0.8	22.2	150	22 105 +03^A	100
	2.2	13	22.0	32.0	0.8	27.5	150	22 225 +03^A	100
305VAC	0.1	6	12.0	18.0	0.8	15.0	475	22 104 +04^A	500
	1.0	11	20.0	26.5	0.8	22.5	300	22 105 +04^A	100
	2.2	13	25.0	32.0	0.8	27.5	150	22 225 +04^A	100
310VAC	0.1	6	12.0	18.0	0.8	15.0	400	22 104 +05^A	500
	1.0	11	20.0	26.5	0.8	22.5	300	22 105 +05^A	100
	2.2	13	25.0	32.0	0.8	27.5	150	22 225 +05^A	100
440 VAC	0.1	6	12.0	18.0	0.8	15.0	340	22 104 +06^A	500
	1.0	13	25.0	32.0	0.8	27.5	170	22 105 +06^A	100
	2.2	18	33.0	32.0	0.8	27.5	150	22 225 +06^A	100



Note: For more details please contact [info@dekielectronics.com](mailto:info@dekielectronics.com)