

# Metallized Polypropylene Axial Film Capacitors

Series Code  
52, 140

## MPP-AC Axial Series

**Main Application**

Used in low current ac applications.

**Construction**

Low inductive wound cell of metallized polypropylene film wrapped with polyester tape filled by resin.

**Climatic Category**

40/100/21

**Rated and Maximum Operating Temperature**

85°C and 100°C

**Applicable Specification**

IEC 384-17

**Capacitance Value**

0.01µF-10.0µF

**Capacitance Tolerance**

±5%,±10%

**Insulation Resistance**

Minimum Insulation Resistance  $R_{IS}$   
(or) time constant  $T = C_R \times R_{IS}$   
Measured at 100VDC for 60 sec.  
(at 25° C, relative humidity ≤70%)

$C_R \leq 0.33 \mu F$   
100000 MΩ

$C_R > 0.33 \mu F$   
30000 s

**Rated Voltage**

250VAC-440VAC

**Voltage Proof**

Between terminals:1200VDC for rated voltage up to 275 VAC and 1250 VDC for rated voltage above 275VAC for 2 sec.

**Tan δ**

0.1% (maximum) at 1kHz.

**Life Test Conditions**

(Loading at elevated temperature)

Loaded at 1.25 times of rated voltage at 70°C for 500 hours.

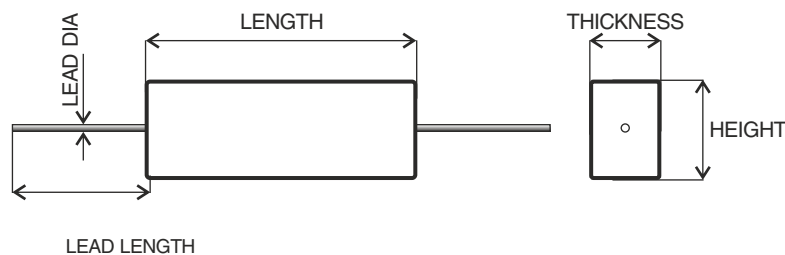
**After the test**

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

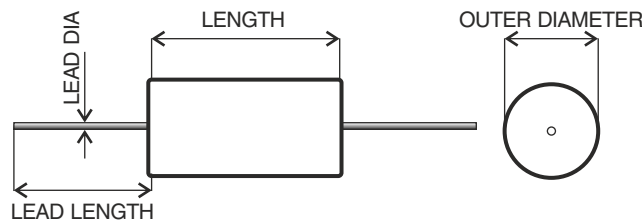
Increase of Tan δ:  $\leq 0.004$

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

**Metallized Polypropylene Flat Axial Film Capacitors (Series Code - 52)**



**Metallized Polypropylene Round Axial Film Capacitors (Series Code - 140)**



# Metallized Polypropylene Axial Film Capacitors

MPP-AC • Series Code 52, 140



Ordering code and packing units: Metallized Polypropylene Flat Axial Film Capacitors  
MPP-AC • Series Code 52

Rated Voltage	Rated Cap. (µF)	W (max)	H (max)	Dimensions (mm)		Lead Length (min)	Wt (g)	Ordering Code
				L (max)	d (±0.05)			
250VAC	0.010	5.0	8.0	15	0.6	30	2.2	52 103 + 02 *^
	0.047	6.0	10.0	15	0.6	30	3.1	52 473 + 02 *^
	0.100	7.0	10.5	15	0.6	30	3.5	52 104 + 02 *^
	0.100	5.5	9.5	21	0.8	30	2.5	52 104 + 02 *^
	0.220	5.5	10.0	21	0.8	30	3.1	52 224 + 02 *^
	0.680	10.0	15.0	21	0.8	30	7.4	52 684 + 02 *^
	0.330	6.0	10.5	29	0.8	30	2.9	52 334 + 02 *^
	0.470	7.0	11.5	29	0.8	30	3.6	52 474 + 02 *^
	1.000	8.5	16.0	29	0.8	30	6.3	52 105 + 02 *^
	0.470	6.0	12.0	35	0.8	30	3.0	52 474 + 02 *^
	1.000	7.5	15.5	35	0.8	30	5.0	52 105 + 02 *^
	2.200	11.0	19.0	35	0.8	30	9.5	52 225 + 02 *^
	4.700	17.0	26.0	35	0.8	30	18.5	52 475 + 02 *^
	1.000	7.0	13.0	45	0.8	30	3.0	52 105 + 02 *^
	2.200	9.0	17.0	45	0.8	30	6.4	52 225 + 02 *^
4.700	13.5	22.0	45	0.8	30	12.0	52 475 + 02 *^	
6.800	16.5	26.0	45	0.8	30	16.7	52 685 + 02 *^	
10.000	20.0	30.0	45	0.8	30	23.5	52 106 + 02 *^	
275VAC	0.010	5.0	8.0	15	0.6	30	2.2	52 103 + 02 *^
	0.047	6.0	10.0	15	0.6	30	3.1	52 473 + 02 *^
	0.100	7.0	10.5	15	0.6	30	3.5	52 104 + 02 *^
	0.100	5.5	9.5	21	0.8	30	2.5	52 104 + 02 *^
	0.410	8.0	12.5	21	0.8	30	4.9	52 414 + 02 *^
	0.680	10.0	15.0	21	0.8	30	7.4	52 684 + 02 *^
	0.330	6.0	10.5	29	0.8	30	2.9	52 334 + 02 *^
	0.680	8.0	12.5	29	0.8	30	4.7	52 684 + 02 *^
	1.000	8.5	16.0	29	0.8	30	6.3	52 105 + 02 *^
	0.470	6.0	12.0	35	0.8	30	3.0	52 474 + 02 *^
	1.000	7.5	15.5	35	0.8	30	5.0	52 105 + 02 *^
	2.200	11.0	19.0	35	0.8	30	9.5	52 225 + 02 *^
	4.700	17.0	26.0	35	0.8	30	18.5	52 475 + 02 *^
	1.000	7.0	13.0	45	0.8	30	3.0	52 105 + 02 *^
	2.200	9.0	17.0	45	0.8	30	6.4	52 225 + 02 *^
4.700	13.5	22.0	45	0.8	30	12.0	52 475 + 02 *^	
6.800	16.5	26.0	45	0.8	30	16.7	52 685 + 02 *^	
10.000	20.0	30.0	45	0.8	30	23.5	52 106 + 02 *^	
310VAC	0.010	5.0	8.0	15	0.6	30	2.2	52 103 + 05 *^
	0.047	5.5	9.5	15	0.6	30	2.5	52 473 + 05 *^
	0.100	6.5	11.5	15	0.6	30	3.7	52 104 + 05 *^
	0.100	5.5	9.5	21	0.8	30	2.6	52 104 + 05 *^
	0.220	7.5	12.0	21	0.8	30	4.1	52 224 + 05 *^
	0.470	10.5	15.0	21	0.8	30	7.4	52 474 + 05 *^
	0.220	6.0	10.5	29	0.8	30	2.9	52 224 + 05 *^
	0.470	7.5	14.0	29	0.8	30	4.8	52 474 + 05 *^
	1.000	10.5	18.0	29	0.8	30	8.6	52 105 + 05 *^
	1.500	13.5	20.0	29	0.8	30	12.3	52 155 + 05 *^
	0.330	6.0	13.0	35	0.8	30	3.0	52 334 + 05 *^
	0.680	7.5	15.5	35	0.8	30	5.0	52 684 + 05 *^
	1.000	9.0	17.0	35	0.8	30	6.8	52 105 + 05 *^
	2.200	13.0	22.5	35	0.8	30	13.0	52 225 + 05 *^
	3.300	17.0	25.0	35	0.8	30	18.8	52 335 + 05 *^
440VAC	0.010	5.0	8.0	15	0.6	30	2.2	52 103 + 06 *^
	0.022	5.5	9.5	15	0.6	30	2.7	52 223 + 06 *^
	0.033	6.5	10.5	15	0.6	30	3.4	52 333 + 06 *^
	0.068	6.0	11.0	21	0.8	30	3.2	52 683 + 06 *^
	0.100	6.5	13.0	21	0.8	30	4.1	52 104 + 06 *^
	0.220	9.5	16.0	21	0.8	30	7.6	52 224 + 06 *^
	0.100	6.0	10.5	29	0.8	30	2.8	52 104 + 06 *^
	0.330	9.0	15.5	29	0.8	30	6.2	52 334 + 06 *^
	0.470	10.0	18.0	29	0.8	30	8.3	52 474 + 06 *^
	0.680	12.0	20.0	29	0.8	30	11.3	52 684 + 06 *^
	0.220	6.5	13.0	35	0.8	30	3.7	52 224 + 06 *^
	0.470	9.0	16.5	35	0.8	30	6.4	52 474 + 06 *^
	1.000	13.0	21.0	35	0.8	30	11.9	52 105 + 06 *^
	1.500	16.0	24.0	35	0.8	30	17.0	52 155 + 06 *^
	0.470	7.0	15.0	45	0.8	30	4.5	52 474 + 06 *^
1.000	10.5	18.5	45	0.8	30	7.8	52 105 + 06 *^	
2.200	16.0	24.0	45	0.8	30	15.0	52 225 + 06 *^	
3.300	20.0	28.0	45	0.8	30	21.5	52 335 + 06 *^	

# Metallized Polypropylene Axial Film Capacitors

MPP-AC • Series Code 52, 140



Ordering code and packing units: Metallized Polypropylene Round Axial Film Capacitors

MPP-AC • Series Code 140

Rated Voltage	Rated Cap. (μF)	Outer Diameter (max)	Dimensions (mm)		Lead Length (min)	Wt (g)	Ordering Code	
			Length (max)	d (±0.05)				
250VAC	0.033	9.0	15	0.6	30	3.0	140 333 + 02 *^	
	0.100	9.5	15	0.6	30	3.2	140 104 + 02 *^	
	0.220	10.5	15	0.6	30	4.3	140 224 + 02 *^	
	0.100	10.0	21	0.8	30	2.42	140 104 + 02 *^	
	0.680	12.5	21	0.8	30	6.3	140 683 + 02 *^	
	1.000	12.0	29	0.8	30	5.5	140 105 + 02 *^	
	2.200	17.5	29	0.8	30	10.7	140 225 + 02 *^	
	1.000	11.5	35	0.8	30	4.3	140 105 + 02 *^	
	3.300	18.5	35	0.8	30	11.7	140 335 + 02 *^	
	1.500	12.0	45	0.8	30	4.1	140 155 + 02 *^	
	3.300	16.0	45	0.8	30	7.6	140 335 + 02 *^	
	6.800	22.0	45	0.8	30	14.2	140 685 + 02 *^	
	275VAC	0.033	9.0	15	0.6	30	3.0	140 333 + 03 *^
		0.100	9.5	15	0.6	30	3.2	140 104 + 03 *^
0.220		10.5	15	0.6	30	4.3	140 224 + 03 *^	
0.100		10.0	21	0.8	30	2.42	140 104 + 03 *^	
0.680		12.5	21	0.8	30	6.3	140 683 + 03 *^	
1.000		12.0	29	0.8	30	5.5	140 105 + 03 *^	
2.200		17.5	29	0.8	30	10.7	140 225 + 03 *^	
1.000		11.5	35	0.8	30	4.3	140 105 + 03 *^	
3.300		18.5	35	0.8	30	11.7	140 335 + 03 *^	
1.500		12.0	45	0.8	30	4.1	140 155 + 03 *^	
4.700		18.5	45	0.8	30	10.3	140 475 + 03 *^	
6.800		22.0	45	0.8	30	14.2	140 685 + 03 *^	
305VAC		0.033	9.0	15	0.6	30	3.0	140 333 + 04 *^
		0.220	12.5	15	0.8	30	5.8	140 224 + 04 *^
	0.100	10.0	21	0.8	30	3.3	140 104 + 04 *^	
	0.220	10.0	21	0.8	30	3.5	140 224 + 04 *^	
	0.220	10.0	29	0.8	30	3.0	140 224 + 04 *^	
	1.000	14.5	29	0.8	30	7.5	140 105 + 04 *^	
	1.500	17.0	29	0.8	30	10.6	140 155 + 04 *^	
	1.000	13.0	35	0.8	30	5.8	140 105 + 04 *^	
	2.200	18.0	35	0.8	30	11.3	140 225 + 04 *^	
	1.000	12.0	45	0.8	30	4.0	140 105 + 04 *^	
	3.300	18.5	45	0.8	30	10.5	140 335 + 04 *^	
	310VAC	0.033	9.0	15	0.6	30	3.0	140 333 + 05 *^
		0.220	12.5	15	0.8	30	5.8	140 224 + 05 *^
		0.100	10.0	21	0.8	30	3.3	140 104 + 05 *^
0.220		10.0	21	0.8	30	3.5	140 224 + 05 *^	
0.220		10.0	29	0.8	30	3.0	140 224 + 05 *^	
1.500		17.0	29	0.8	30	10.6	140 155 + 05 *^	
1.000		13.0	35	0.8	30	5.8	140 105 + 05 *^	
2.200		18.0	35	0.8	30	11.3	140 225 + 05 *^	
1.000		12.0	45	0.8	30	4.0	140 105 + 05 *^	
3.300		18.5	45	0.6	30	10.5	140 335 + 05 *^	
440VAC		0.033	10.0	15	0.6	30	3.5	140 333 + 06 *^
		0.068	10.5	15	0.6	30	4.0	140 683 + 06 *^
		0.100	10.0	21	0.8	30	3.5	140 104 + 06 *^
		0.220	13.5	21	0.8	30	6.5	140 224 + 06 *^
	0.220	11.0	29	0.8	30	4.0	140 224 + 06 *^	
	1.000	19.0	29	0.8	30	13.8	140 105 + 06 *^	
	0.220	10.0	35	0.8	30	3.1	140 224 + 06 *^	
	1.500	20.0	35	0.8	30	14.7	140 155 + 06 *^	
	0.330	10.0	45	0.8	30	2.9	140 334 + 06 *^	
	1.000	15.0	45	0.8	30	6.6	140 105 + 06 *^	
	2.200	20.5	45	0.8	30	12.9	140 225 + 06 *^	

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