Metallized Polypropylene High Capacitance Stability Film Capacitors

Series Code 117, 122

MPP-AC-Series Construction

Main Application
This series is specially designed for energy meter applications, voltage dropper, capacitive power supply etc for long stability of capacitance value.

Construction
Series constructed metallized polypropylene film and normal metallized polypropylene film as internal electrodes as coated with flame retardant epoxy resin or encased in a flame retardant box.

Climatic Category
40/100/56

Rated Maximum Operating Temperature
85°C and 100° C

Applicable Specification
IEC 384-17

Capacitance Value
0.022 - 2.2µF

Capacitance Tolerance
±5%, ±10%, ±20%

Rated Voltage
305VAC-500VAC

Tan δ

Frequency	$C_R \leq 1.0\mu F$	$C_R > 1.0\mu F$
At 1 kHz	0.08%	0.1%

1. Damp Heat Test (Steady State) Conditions
Temperature: 40°C±2°C
Relative humidity: 93±2%RH
Duration: 1000 hours

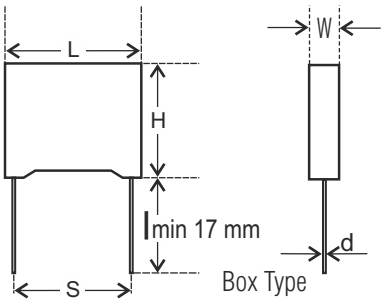
2.THB Test Conditions
Loaded at 240VAC at 85°C temperature with 85% relative humidity for 500 hours.

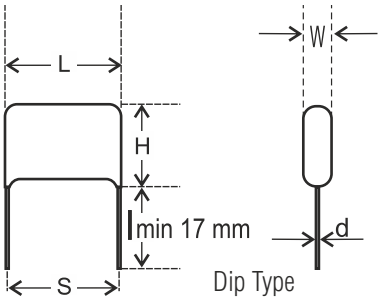
3.Life Test Conditions
(Loading at elevated temperature)
Loaded at 1.25 times of the rated voltage at 70°C for 1000 hours.

After the Test
ΔC/C: ≤ 10%
Increase of Tan δ: ≤ 0.005; $C_R \leq 1\mu F$
Insulation resistance: ≥ 50% of the value mentioned in IR chart.

Insulation Resistance

Minimum Insulation Resistance R_{IS}	$C_R \leq 0.33\mu F$	$C_R > 0.33\ \mu F$
(or) time constant $T = C_R \times R_{IS}$	30000 MΩ	10000s
(at 20° C, relative humidity ≤70%)		





Metallized Polypropylene High Capacitance Stability Film Capacitors

MPP-AC-Series Construction • Series Code 117, 122

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Ordering code and packing units: Metallized Polypropylene High Capacitance Stability Film Capacitors MPP-AC Series Construction (Dip Type) • Series Code 117

Rated Voltage	Rated Cap. (µF)	Dimensions (mm) W (max)	H (max)	L (Max)	d (±0.05)	S (±0.75)	F (±0.75)	Wt. (g)	Ordering code
305VAC	0.047	7	13	19	0.8	15.0	10.0	1.7	117 473 + 04 *^
	0.100	8	14	19	0.8	15.0	10.0	2.1	117 104 + 04 *^
	0.220	11	17	19	0.8	15.0	10.0	3.8	117 224 + 04 *^
	0.100	6	11	27	0.8	22.5	15.0	1.4	117 104 + 04 *^
	0.330	9	17	27	0.8	22.5	15.0	2.8	117 334 + 04 *^
	0.680	13	21	27	0.8	22.5	15.0	5.0	117 684 + 04 *^
	0.220	7	14	31	0.8	27.5	22.5	1.8	117 224 + 04 *^
	0.470	10	16	31	0.8	27.5	22.5	3.0	117 474 + 04 *^
	1.000	14	22	31	0.8	27.5	22.5	5.4	117 105 + 04 *^
	2.200	21	29	31	0.8	27.5	22.5	10.5	117 225 + 04 *^
310VAC	0.047	7	13	19	0.8	15.0	10.0	1.7	117 473 + 05 *^
	0.068	7	13	19	0.8	15.0	10.0	1.7	117 683 + 05 *^
	0.100	8	14	19	0.8	15.0	10.0	2.1	117 104 + 05 *^
	0.220	11	17	19	0.8	15.0	10.0	3.8	117 224 + 05 *^
	0.100	6	11	27	0.8	22.5	15.0	1.4	117 104 + 05 *^
	0.330	9	17	27	0.8	22.5	15.0	2.8	117 334 + 05 *^
	0.680	13	21	27	0.8	22.5	15.0	5.0	117 684 + 05 *^
	0.220	7	14	31	0.8	27.5	22.5	1.8	117 224 + 05 *^
	0.470	10	16	31	0.8	27.5	22.5	3.0	117 474 + 05 *^
	1.000	14	22	31	0.8	27.5	22.5	5.4	117 105 + 05 *^
	2.200	21	29	31	0.8	27.5	22.5	10.5	117 225 + 05 *^
440VAC	0.033	6	11	19	0.8	15.0	10.0	1.4	117 333 + 06 *^
	0.047	7	13	19	0.8	15.0	10.0	1.8	117 473 + 06 *^
	0.100	10	16	19	0.8	15.0	10.0	2.9	117 104 + 06 *^
	0.068	6	11	27	0.8	22.5	15.0	1.4	117 683 + 06 *^
	0.100	7	13	27	0.8	22.5	15.0	1.7	117 104 + 06 *^
	0.220	10	16	27	0.8	22.5	15.0	2.9	117 224 + 06 *^
	0.330	11	19	27	0.8	22.5	15.0	4.0	117 334 + 06 *^
	0.470	13	21	27	0.8	22.5	15.0	5.2	117 474 + 06 *^
	0.100	7	12	31	0.8	27.5	22.5	1.5	117 104 + 06 *^
	0.330	11	17	31	0.8	27.5	22.5	3.2	117 334 + 06 *^
	0.680	14	22	31	0.8	27.5	22.5	5.7	117 684 + 06 *^
500VAC	0.022	6	11	19	0.8	15.0	10.0	1.4	117 223 + 07 *^
	0.033	7	13	19	0.8	15.0	10.0	1.8	117 333 + 07 *^
	0.068	9	17	19	0.8	15.0	10.0	2.9	117 683 + 07 *^
	0.033	6	10	27	0.8	22.5	15.0	1.2	117 333 + 07 *^
	0.068	8	13	27	0.8	22.5	15.0	1.9	117 683 + 07 *^
	0.100	9	15	27	0.8	22.5	15.0	2.7	117 104 + 07 *^
.	0.047	6	11	31	0.8	27.5	22.5	1.32	117 473 + 07 *^
	0.100	8	14	31	0.8	27.5	22.5	2.0	117 104 + 07 *^
	0.330	12	20	31	0.8	27.5	22.5	4.5	117 334 + 07 *^
	0.680	18	26	31	0.8	27.5	22.5	8.0	117 684 + 07 *^

Metallized Polypropylene High Capacitance Stability Film Capacitors

MPP-AC-Series Construction • Series Code 117, 122

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Ordering code and packing units: Metallized Polypropylene High Capacitance Stability Film Capacitors MPP-AC Series Construction (Box Type) • Series Code 122

Rated Voltage	Rated Cap. (µF)	Dimensions (mm) W (±0.5)	H (±0.5)	L (±0.5)	d (±0.05)	S (±0.75)	F (±0.75)	Ordering code
305VAC	0.100	6.0	11.0	26	0.8	22.5	15.0	122 104 + 04 *^
	0.330	9.0	18.0	26	0.8	22.5	15.0	122 334 + 04 *^
	0.680	13.0	21.0	27	0.8	22.5	15.0	122 684 + 04 *^
	0.330	9.0	18.0	32	0.8	27.5	22.5	122 334 + 04 *^
	0.680	11.0	20.0	32	0.8	27.5	22.5	122 684 + 04 *^
	1.000	13.0	22.0	32	0.8	27.5	22.5	122 105 + 04 *^
	2.200	20.0	30.0	32	0.8	27.5	22.5	122 225 + 04 *^
310VAC	0.047	6.0	12.0	18	0.8	15.0	10.0	122 473 + 05 *^
	0.068	6.0	12.0	18	0.8	15.0	10.0	122 683 + 05 *^
	0.100	6.0	11.0	26	0.8	22.5	15.0	122 104 + 05 *^
	0.330	9.0	18.0	26	0.8	22.5	15.0	122 334 + 05 *^
	0.680	13.0	21.0	27	0.8	22.5	15.0	122 684 + 05 *^
	0.330	9.0	18.0	32	0.8	27.5	22.5	122 334 + 05 *^
	0.680	11.0	20.0	32	0.8	27.5	22.5	122 684 + 05 *^
	1.000	13.0	22.0	32	0.8	27.5	22.5	122 105 + 05 *^
	2.200	20.0	30.0	32	0.8	27.5	22.5	122 225 + 05 *^
440VAC	0.033	6.0	12.0	18	0.8	15.0	10.0	122 333 + 06 *^
	0.047	7.0	13.5	18	0.8	15.0	10.0	122 473 + 06 *^
	0.100	8.5	17.5	18	0.8	15.0	10.0	122 104 + 06 *^
	0.220	9.0	18.0	26	0.8	22.5	15.0	122 224 + 06 *^
	0.330	12.0	22.0	26	0.8	22.5	15.0	122 334 + 06 *^
	0.330	9.0	18.0	32	0.8	27.5	22.5	122 334 + 06 *^
	0.470	11.0	20.0	32	0.8	27.5	22.5	122 474 + 06 *^
	0.680	14.0	23.5	32	0.8	27.5	22.5	122 684 + 06 *^
500VAC	0.022	6.0	12.0	18	0.8	15.0	10.0	122 223 + 07 *^
	0.047	8.5	14.0	18	0.8	15.0	10.0	122 473 + 07 *^
	0.068	8.5	17.0	18	0.8	15.0	10.0	122 683 + 07 *^
	0.047	6.0	15.0	26	0.8	22.5	15.0	122 473 + 07 *^
	0.068	6.0	15.0	26	0.8	22.5	15.0	122 683 + 07 *^
	0.100	7.0	16.0	26	0.8	22.5	15.0	122 104 + 07 *^
	0.220	9.0	18.0	32	0.8	27.5	22.5	122 224 + 07 *^
	0.470	14.0	23.5	32	0.8	27.5	22.5	122 474 + 07 *^
	0.680	18.0	26.0	32	0.8	27.5	22.5	122 684 + 07 *^

Note: For more details please contact info@dekielectronics.com