

AC Pulse & Metallized Polypropylene Film Capacitors

Series Code
63, 68

PP/MPP

Main Application

SMPS, electronic ballast, resonant capacitor, snubber application with high voltage and high current.

Construction

Series constructed, impregnated polypropylene film, aluminium foil and metallized polypropylene film as internal electrodes coated by hard, water repellent, solvent resistant epoxy resin or enclosed in a flame retardant box.

Climatic Category

40/100/56

Maximum Operating Temperature

100° C

Applicable Specification

IEC 384-16

Capacitance Value

0.0068µF-0.47µF

Capacitance Tolerance

±5%, ±10%

Insulation Resistance

Minimum Insulation Resistance R_{IS} V_R $C_R \leq 0.33 \mu F$ $C_R > 0.33 \mu F$
 (or) time constant $T = C_R \times R_{IS}$ $\leq 500 \text{ V DC}$ $100 \text{ G}\Omega$ 30000 s
 500VDC for $V_R > 500 \text{ V}$
 (temp 20° C, relative humidity $\leq 70\%$)

Rated Voltage

1000VDC-2000VDC

Voltage Proof

Between terminals 1.6 times of rated voltage for 2sec.

Tan δ

Frequency (kHz)	$C_R < 0.1\mu F$	$0.1 < C_R \leq 1.0\mu F$
At 1	0.05%	0.08%
At 10	0.1%	0.1%
At 100	0.3%	0.5%

Life Test Conditions

(Loading at elevated temperature)

Loaded at 1.25 times the rated DC voltage at 85° C for 1000 hours.

After the test

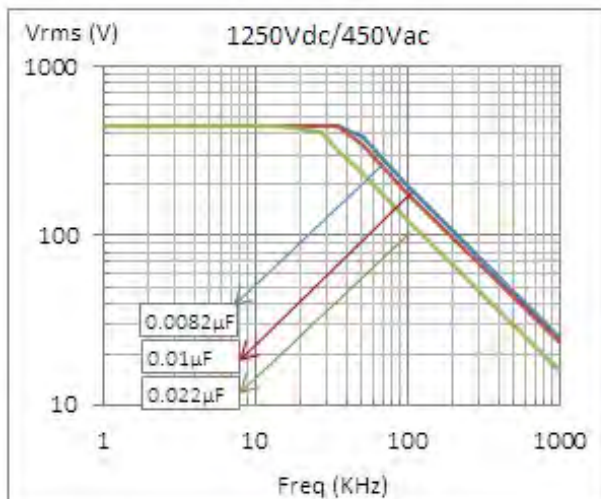
$\Delta c/c$: $\leq 5\%$ of initial value.

Change in Tan δ : 0.003

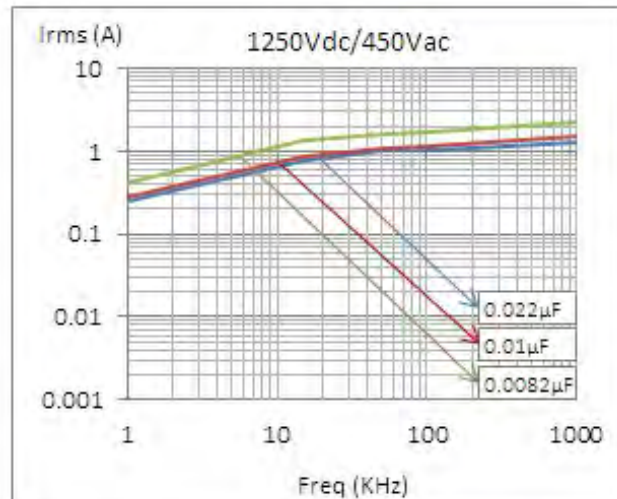
Insulation resistance: $\geq 50\%$ of the value mentioned in IR chart.

Derating graph for AC Pulse & Metallized Polypropylene Film Capacitors PP/MPP

Max. Voltage (Vrms) vs. Frequency
(Sinusoidal Waveform at T $\leq 85^\circ \text{ C}$)



Max. Current (Irms) vs. Frequency
(Sinusoidal Waveform at T $\leq 85^\circ \text{ C}$)



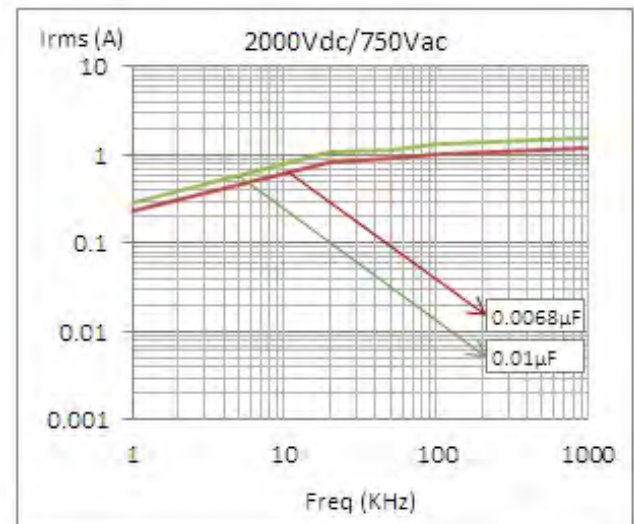
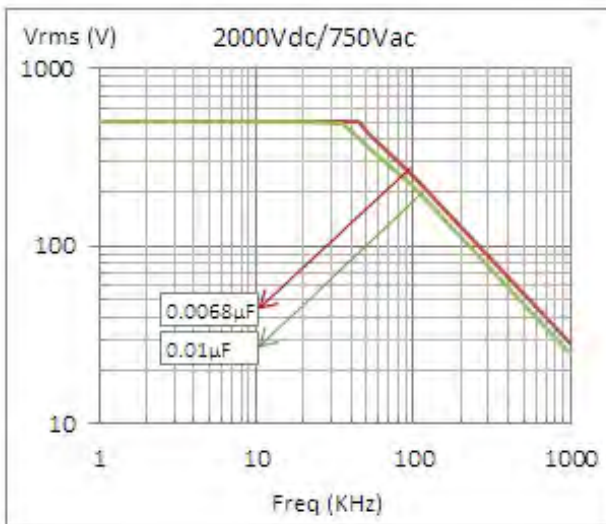
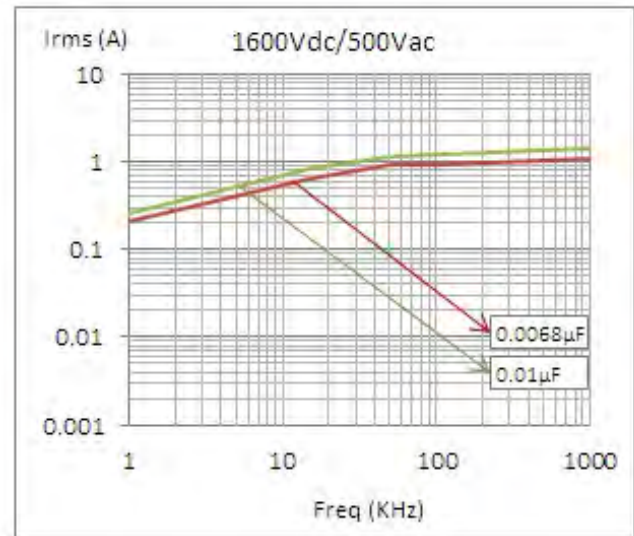
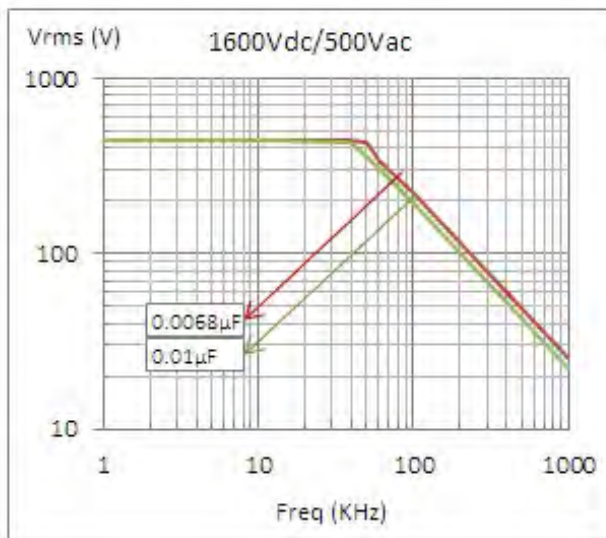
AC Pulse & Metallized Polypropylene Film Capacitors



PP/MPP • Series Code 63, 68

Max. Voltage (Vrms) vs. Frequency
(Sinusoidal Waveform at $T \leq 85^\circ\text{C}$)

Max. Current (Irms) vs. Frequency
(Sinusoidal Waveform at $T \leq 85^\circ\text{C}$)



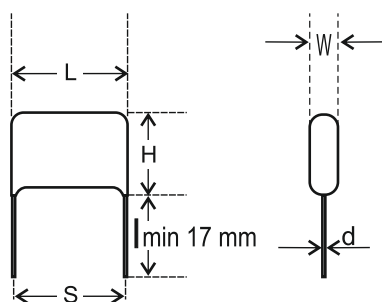
AC Pulse & Metallized Polypropylene Film Capacitors



PP/MPP • Series Code 63, 68

Ordering code and packaging unit: AC Pulse & Metallized Polypropylene Film Capacitors
(PP/MPP) Dip Type • Series Code 63

Rated Voltage	Rated Capacitance μF	Dimensions (mm)					Ordering code	Packing units Bulk
		W ±0.75	H ±0.75	L ±0.75	d ±0.05	S ±0.75		
1000VDC	0.0068	6.0	10.5	19.0	0.8	15.0	63 682 +3A*^	500
400VAC	0.01	6.5	11.0	19.0	0.8	15.0	63 103 +3A*^	500
	0.1	15.0	21.5	19.0	0.8	15.0	63 104 +3A*^	500
	0.018	7.0	12.0	28.0	0.8	22.5	63 183 +3A*^	250
	0.068	10.0	15.0	28.0	0.8	22.5	63 683 +3A*^	250
	0.1	11.0	18.0	28.0	0.8	22.5	63 104 +3A*^	250
	0.022	7.5	12.5	31.0	0.8	27.5	63 223 +3A*^	250
	0.1	10.5	16.0	31.0	0.8	27.5	63 104 +3A*^	250
	0.47	19.5	29.5	31.0	0.8	27.5	63 474 +3A*^	250
1250VDC	0.0068	6.5	11.0	19.0	0.8	15.0	63 682 +3B*^	500
450VAC	0.01	6.5	11.0	19.0	0.8	15.0	63 103 +3B*^	500
	0.082	15.5	22.0	19.0	0.8	15.0	63 823 +3B*^	500
	0.0082	7.5	12.0	28.0	0.8	22.5	63 822 +3B*^	250
	0.01	8.0	13.0	28.0	0.8	22.5	63 103 +3B*^	250
	0.1	12.5	19.0	28.0	0.8	22.5	63 104 +3B*^	250
	0.022	7.5	13.0	31.0	0.8	27.5	63 222 +3B*^	250
	0.1	11.5	18.5	31.0	0.8	27.5	63 104 +3B*^	250
	0.33	19.5	29.5	31.0	0.8	27.5	63 334 +3B*^	250
1600VDC	0.0068	8.0	13.0	19.0	0.8	15.0	63 682 +3C*^	500
500VAC	0.01	9.5	15.0	19.0	0.8	15.0	63 103 +3C*^	500
	0.022	13.0	20.0	19.0	0.8	15.0	63 223 +3C*^	500
	0.0068	7.5	12.5	28.0	0.8	22.5	63 682 +3C*^	250
	0.01	7.0	12.5	28.0	0.8	22.5	63 103 +3C*^	250
	0.1	17.5	27.5	28.0	0.8	22.5	63 104 +3C*^	250
	0.022	9.0	14.0	31.0	0.8	27.5	63 223 +3C*^	250
	0.1	15.5	25.5	31.0	0.8	27.5	63 104 +3C*^	250
	0.18	21.5	31.0	31.0	0.8	27.5	63 184 +3C*^	250
2000VDC	0.0068	10.0	17.0	19.0	0.8	15.0	63 682 +3D*^	500
700VAC	0.01	12.0	19.0	19.0	0.8	15.0	63 103 +3D*^	500
	0.015	15.0	21.5	19.0	0.8	15.0	63 153 +3D*^	500
	0.0068	7.5	12.5	28.0	0.8	22.5	63 682 +3D*^	250
	0.01	8.5	13.5	28.0	0.8	22.5	63 103 +3D*^	250
	0.082	19.5	29.5	28.0	0.8	22.5	63 823 +3D*^	250
	0.0068	7.5	13.0	31.0	0.8	27.5	63 682 +3D*^	250
	0.01	8.0	13.0	31.0	0.8	27.5	63 103 +3D*^	250
	0.1	19.5	29.5	31.0	0.8	27.5	63 104 +3D*^	250



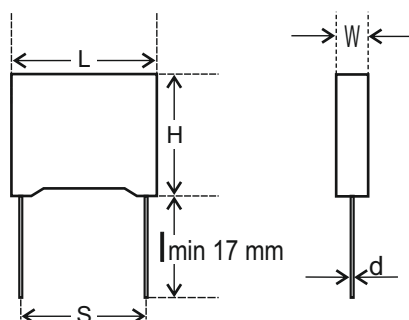
AC Pulse & Metallized Polypropylene Film Capacitors



PP/MPP • Series Code 63, 68

Ordering code and packaging unit: AC Pulse & Metallized Polypropylene Film Capacitors
(PP/MPP) Box Type • Series Code 68

Rated Voltage	Rated Capacitance μF	Dimensions (mm)					Ordering code	Packing units Bulk
		W ±0.75	H ±0.75	L ±0.75	d ±0.05	S ±0.75		
1000VDC	0.0068	5.0	11.0	18.0	0.8	15.0	68 682 +3A*^	500
400VAC	0.01	5.0	11.0	18.0	0.8	15.0	68 103 +3A*^	500
	0.082	12.0	21.0	18.0	0.8	15.0	68 823 +3A*^	500
	0.018	6.0	15.0	26.0	0.8	22.5	68 183 +3A*^	250
	0.068	8.5	17.0	26.0	0.8	22.5	68 683 +3A*^	250
	0.1	10.0	19.0	26.0	0.8	22.5	68 104 +3A*^	250
	0.022	9.0	18.0	32.0	0.8	27.5	68 223 +3A*^	250
	0.1	9.0	18.0	32.0	0.8	27.5	68 104 +3A*^	250
	0.47	20.0	30.0	32.0	0.8	27.5	68 474 +3A*^	250
1250VDC	0.0068	6.0	12.0	18.0	0.8	15.0	68 682 +3B*^	500
450VAC	0.01	6.0	12.0	18.0	0.8	15.0	68 103 +3B*^	500
	0.056	12.0	21.0	18.0	0.8	15.0	68 563 +3B*^	500
	0.0082	6.0	15.0	26.0	0.8	22.5	68 822 +3B*^	250
	0.01	7.0	16.5	26.0	0.8	22.5	68 103 +3B*^	250
	0.1	12.0	22.0	26.0	0.8	22.5	68 104 +3B*^	250
	0.022	9.0	18.0	32.0	0.8	27.5	68 222 +3B*^	250
	0.1	11.0	20.0	32.0	0.8	27.5	68 104 +3B*^	250
1600VDC	0.0068	7.5	13.5	18.0	0.8	15.0	68 682 +3C*^	500
	500VAC	0.01	8.5	17.5	18.0	0.8	15.0	68 103 +3C*^
500VAC	0.022	12.0	21.0	18.0	0.8	15.0	68 223 +3C*^	500
	0.0068	6.0	15.0	26.0	0.8	22.5	68 682 +3C*^	250
	0.01	6.0	15.0	26.0	0.8	22.5	68 103 +3C*^	250
	0.068	15.0	25.0	26.0	0.8	22.5	68 683 +3C*^	250
	0.022	9.0	18.0	32.0	0.8	27.5	68 223 +3C*^	250
	0.1	18.0	26.0	32.0	0.8	27.5	68 104 +3C*^	250
	0.18	21.0	34.0	32.0	0.8	27.5	68 184 +3C*^	250
	2000VDC	0.0068	10.0	16.0	18.0	0.8	15.0	68 682 +3D*^
700VAC	0.01	12.0	21.0	18.0	0.8	15.0	68 103 +3D*^	500
	0.012	12.0	21.0	18.0	0.8	15.0	68 123 +3D*^	500
	0.0068	6.0	15.0	26.0	0.8	22.5	68 682 +3D*^	250
	0.01	7.0	16.5	26.0	0.8	22.5	68 103 +3D*^	250
	0.047	15.0	25.0	26.0	0.8	22.5	68 473 +3D*^	250
	0.0068	9.0	18.0	32.0	0.8	27.5	68 682 +3D*^	250
	0.01	9.0	18.0	32.0	0.8	27.5	68 103 +3D*^	250
0.1	20.0	30.0	32.0	0.8	27.5	68 104 +3D*^	250	



Note: For more details please contact shariq@dekielectronics.com or pant@dekielectronics.com