

Fuse Type Metallized Polypropylene Axial Film Capacitors

Series Code
118

(MPP-F Axial Series)

Main Application

Smoothing in active power factor correction, LED driver, boost PFC, fly back PFC.

Construction

Low inductive wound cell of metallized polypropylene film with internal fuses, wrapped with polyester tape filled with resin.

Climatic Category

40/100/21

Rated and Maximum Operating Temperature

85°C and 100°C

Capacitance Value

0.033µF - 15µF

Rated Voltage

450VDC-630VDC

Capacitance Tolerance

±5%, ±10%

Insulation Resistance

Minimum Insulation Resistance R_{IS}
(or) time constant $T = C_R \times R_{IS}$
(at 20° C, relative humidity ≤70%)

$C_R \leq 0.33\mu F$
>30000 MΩ

$C_R > 0.33 \mu F$
>10000s

Voltage Proof

Between terminals: 1.6 times the rated voltage for 2 sec.

Tan δ

Frequency	$C_R < 0.1\mu F$	$0.1\mu F \leq C_R \leq 1.0\mu F$	$C_R > 1.0\mu F$
At 1 kHz	0.05%	0.08%	0.1%
At 10 kHz	0.2%	0.2%	
At 100 kHz	0.8%	1.0%	

Life Test Conditions

(Loading at elevated temperature)

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

After the Test

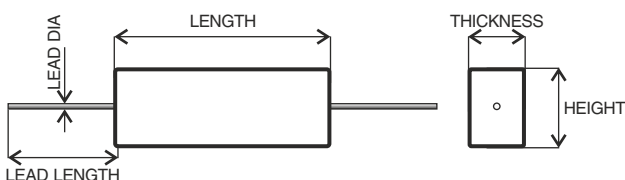
$\Delta C/C \leq 10\%$ of initial value.

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

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

Ordering code and packing units: Fuse Type Metallized Polypropylene Flat Axial Film Capacitors Series Code 118

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)					Lead Length (min)	Weight g	Ordering code
		W (max)	H (max)	L (max)	d ±0.05				
450VDC	0.033	5.5	9.5	15	0.6	30	2.10	118 333 + 2I *^	
	0.068	6.0	11.0	15	0.6	30	2.70	118 683 + 2I *^	
	0.100	6.0	11.0	15	0.6	30	2.70	118 104 + 2I *^	
	0.220	6.5	13.0	15	0.6	30	3.40	118 224 + 2I *^	
	0.100	5.5	9.5	21	0.8	30	2.10	118 104 + 2I *^	
	0.410	8.0	13.5	21	0.8	30	4.36	118 414 + 2I *^	
	1.000	10.0	18.0	21	0.8	30	7.50	118 105 + 2I *^	
	1.500	9.5	17.0	29	0.8	30	7.60	118 155 + 2I *^	
	2.200	11.5	19.0	29	0.8	30	8.40	118 225 + 2I *^	
	3.300	14.0	22.0	29	0.8	30	15.00	118 335 + 2I *^	
	2.200	10.0	18.0	35	0.8	30	6.50	118 225 + 2I *^	
	3.300	12.0	21.0	35	0.8	30	9.10	118 335 + 2I *^	
	4.700	15.0	22.5	35	0.8	30	12.60	118 475 + 2I *^	
	4.700	12.0	21.0	45	1.0	30	8.20	118 475 + 2I *^	
10.00	18.5	28.0	45	1.0	30	15.90	118 106 + 2I *^		
15.00	23.0	33.0	45	1.0	30	23.00	118 156 + 2I *^		
630VDC	0.033	5.5	9.5	15	0.6	30	2.10	118 333 + 2J *^	
	0.047	5.5	10.0	15	0.6	30	2.87	118 473 + 2J *^	
	0.068	5.5	11.0	15	0.6	30	2.95	118 683 + 2J *^	
	0.100	5.5	9.5	21	0.8	30	2.10	118 104 + 2J *^	
	0.410	10.0	15.0	21	0.8	30	5.90	118 414 + 2J *^	
	0.680	12.0	17.5	21	0.8	30	8.80	118 684 + 2J *^	
	0.410	7.0	13.5	29	0.8	30	3.70	118 414 + 2J *^	
	1.000	10.5	18.5	29	0.8	30	7.40	118 105 + 2J *^	
	1.500	13.0	21.0	29	0.8	30	10.50	118 155 + 2J *^	
	1.000	9.0	17.0	35	0.8	30	5.70	118 105 + 2J *^	
	2.200	12.0	20.0	45	1.0	30	7.30	118 225 + 2J *^	
	4.700	16.5	26.5	45	1.0	30	14.00	118 475 + 2J *^	
	10.000	25.0	35.0	45	1.0	30	28.0	118 106 + 2J *^	



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