

# Fuse Type Metallized Polypropylene Film Capacitors

Series Code  
92

## MPP-F Series

### Main Application

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

### Construction

Low inductive wound cell of metallised polypropylene film with internal fuses coated with flame retardant epoxy resin.

### Climatic Category

40/100/56

### Maximum Operating Temperature

100°C

### Capacitance Value

0.047µF-4.7µF

### Capacitance Tolerance

±5%, ±10%

### Rated Voltage

450VDC-630VDC

### Insulation Resistance

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

$C_R \leq 0.33\mu F$   
> 30,000 MΩ

$C_R > 0.33\mu F$   
> 10,000 s

### Voltage Proof

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

### Tan δ

Frequency(kHz)	$C_R < 0.1\mu F$	$0.1\mu F \leq C_R \leq 1\mu F$	$C_R > 1\mu F$
1kHz	0.05%	0.05%	0.08%
10 kHz	0.1%	0.08%	0.1%
100kHz	0.3%	0.8%	1.0%

### Life Test Conditions

(Loading at elevated temperature)

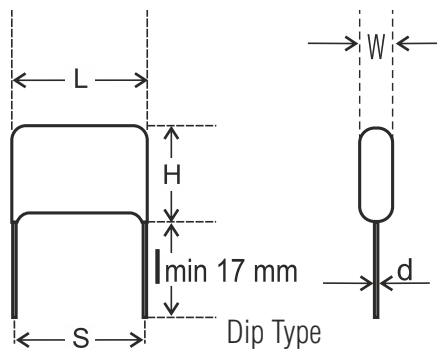
Loaded at 1.25 times of rated voltage at 85° C for 1000 hours.

### After the Test:

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

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

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



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MPP-F Series • Series Code 92



## Ordering code and packing units: Fuse Type Metallized Polypropylene Film Capacitors MPP-F Series • Dip Type • Series Code 92

Rated Voltage	Rated Cap. (μF)	Dimensions (mm)					S (±0.75)	Wt. g	Ordering Code	Packing Units Bulk
		W (Max)	H (Max)	L (Max)	d (±0.05)					
450VDC	0.047	6	11	13	0.6	10.0	1.10	92 473 + 2I *^	500	
	0.068	6	11	13	0.6	10.0	1.30	92 683 + 2I *^	500	
	0.100	6	11	13	0.6	10.0	1.08	92 104 + 2I *^	500	
	0.100	6	11	19	0.8	15.0	1.40	92 104 + 2I *^	500	
	0.410	8	15	19	0.8	15.0	2.90	92 414 + 2I *^	500	
	0.680	10	17	19	0.8	15.0	4.30	92 684 + 2I *^	500	
	0.330	7	12	27	0.8	22.5	2.30	92 334 + 2I *^	500	
	0.470	8	13	27	0.8	22.5	2.90	92 474 + 2I *^	500	
	1.000	10	17	27	0.8	22.5	5.10	92 105 + 2I *^	250	
	0.330	6	11	31	0.8	27.5	2.20	92 334 + 2I *^	250	
	0.470	7	13	31	0.8	27.5	2.90	92 474 + 2I *^	250	
	1.000	9	16	31	0.8	27.5	5.00	92 105 + 2I *^	250	
	2.200	12	21	31	0.8	27.5	9.30	92 225 + 2I *^	250	
	4.700	17	26	31	0.8	27.5	18.00	92 475 + 2I *^	100	
630VDC	0.047	6	11	13	0.6	10.0	1.10	92 473 + 2J *^	500	
	0.068	7	12	13	0.6	10.0	1.50	92 683 + 2J *^	500	
	0.100	8	13	13	0.6	10.0	1.90	92 104 + 2J *^	500	
	0.100	6	11	19	0.8	15.0	1.40	92 104 + 2J *^	500	
	0.220	8	15	19	0.8	15.0	2.60	92 224 + 2J *^	500	
	0.410	10	17	19	0.8	15.0	4.20	92 414 + 2J *^	500	
	0.330	7	14	27	0.8	22.5	3.10	92 334 + 2J *^	500	
	0.470	8	17	27	0.8	22.5	4.00	92 474 + 2J *^	500	
	1.000	11	20	27	0.8	22.5	7.30	92 105 + 2J *^	250	
	0.330	7	14	31	0.8	27.5	3.00	92 334 + 2J *^	250	
	0.470	8	15	31	0.8	27.5	3.90	92 474 + 2J *^	250	
	1.000	10	19	31	0.8	27.5	6.90	92 105 + 2J *^	250	
	3.300	18	27	31	0.8	27.5	19.00	92 335 + 2J *^	100	