

# Plain Polypropylene Film Capacitors

Series Code  
21, 32

## Non-Inductive

### Main Application

SMPS, Motor control circuits, deflection circuit in TV sets (fly back) and monitors, electronic ballast, snubber and SCR commutating circuits and applications with high voltage and high current.

### Construction

Film/foil non inductive type construction with aluminum foil as electrode and PP film as dielectric coated with flame retardant epoxy resin or encased in flame retardant box.

### Climatic Category

40/100/56

### Rated and Maximum Operating Temperature

85°C and 100°C

### Applicable Specification

IEC 384-13 and CACT approved for telecom applications.

### Capacitance Value

0.0022µF-0.47 µF

### Capacitance Tolerance

±1%, ±2%, ±2.5%, ±5%, ±10%

### Insulation Resistance

Minimum Insulation Resistance  $R_{IS}$   
(or) time constant  $T = C_R \times R_{IS}$

$V_R$   
≤100 V DC

$C_R \leq 0.1 \mu F$   
100 GΩ

$C_R > 0.1 \mu F$   
10000s

### Rated Voltage

250VDC-1000VDC

### Voltage Proof

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

### Tan δ

0.08% (maximum) at 1 kHz.

### Life Test Conditions

(Loading at elevated temperature)

Loaded at 1.5 times of rated voltage at 85° C for 1000 hours.

### After the test

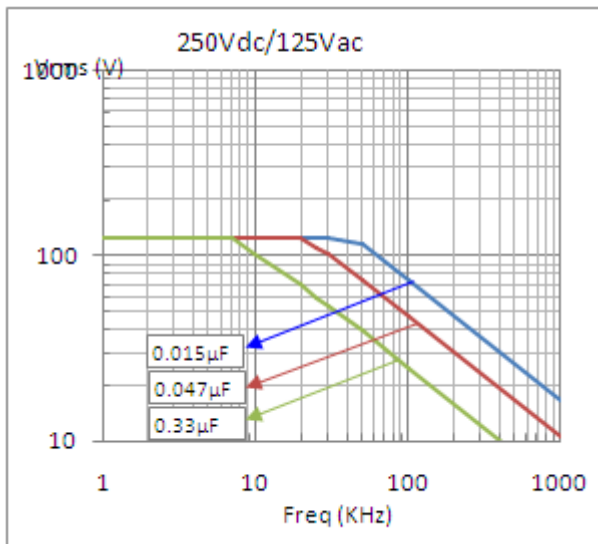
$\Delta C/C \leq 3\%$  of initial value.

Increase of Tan δ: ≤ 1.4 times the value measured before the test.

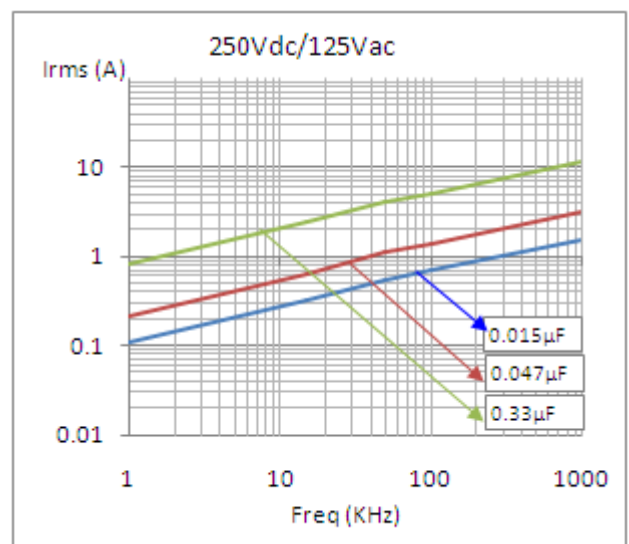
Insulation resistance: ≥ 50% of the value mentioned in IR chart.

### Derating graph for Plain Polypropylene Film Capacitors Non-Inductive

Max. Voltage (Vrms) vs. Frequency  
(Sinusoidal Waveform at T ≤ 85° C)



Max. Current (Irms) vs. Frequency  
(Sinusoidal Waveform at T ≤ 85° C)



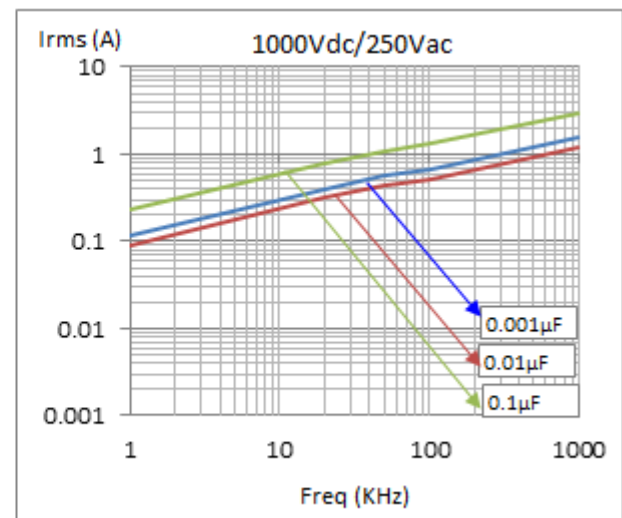
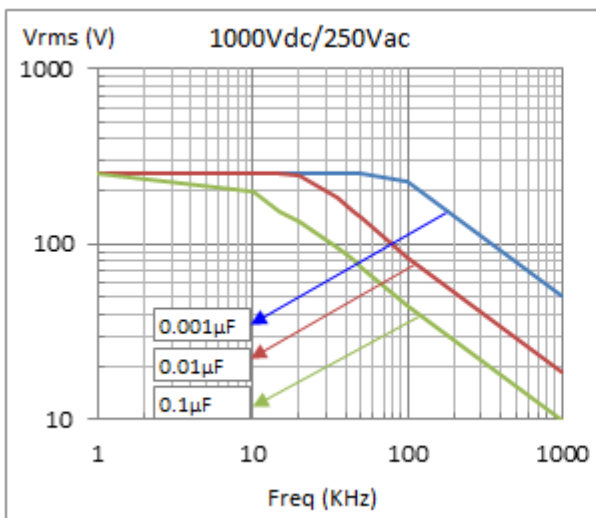
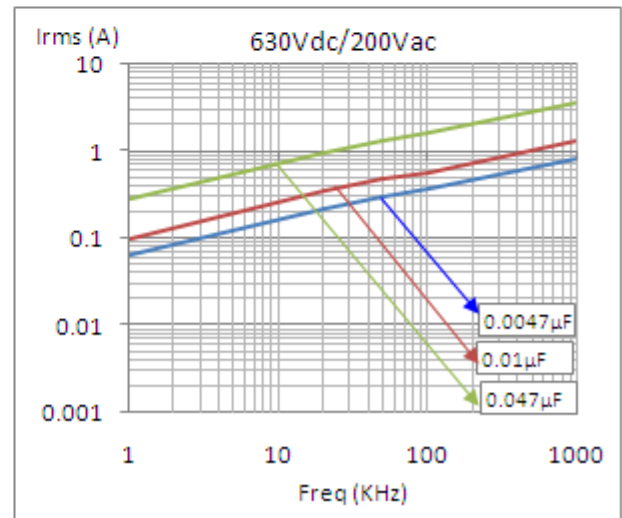
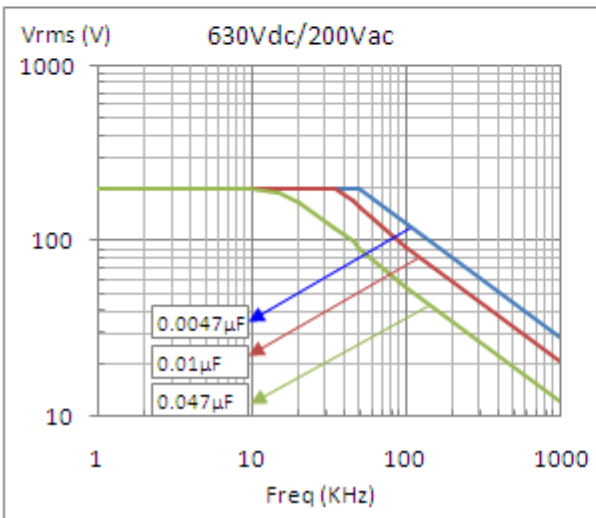
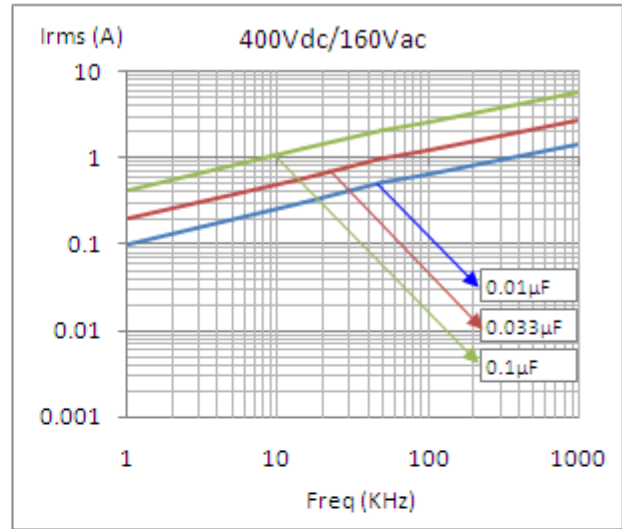
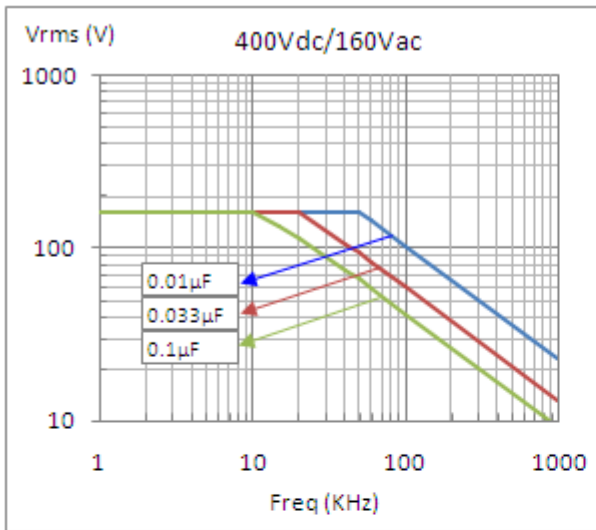
# Plain Polypropylene Film Capacitors



## Non-Inductive • Series Code 21, 32

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

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



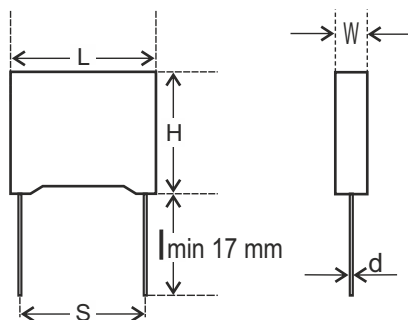
# Plain Polypropylene Film Capacitors

Non-Inductive • Series Code 21, 32



## Ordering code and packaging unit: Plain Polypropylene Film Capacitors (Non-Inductive) Box Type • Series Code 21

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)						Wt. g	Ordering code	Packing units Bulk
		W ±0.5	H ±0.5	L ±0.5	d ±0.05	S ±0.75	F ±0.5			
250VDC	0.0033	4.0	9.0	13	0.6	10.0	10.0	0.6	21 332 +2E*^	500
	0.0047	4.0	9.0	13	0.6	10.0	10.0	0.6	21 472 +2E*^	500
	0.0068	5.0	11.0	13	0.6	10.0	10.0	0.8	21 682 +2E*^	500
	0.0100	6.0	12.0	13	0.6	10.0	10.0	0.9	21 103 +2E*^	500
	0.0470	10.0	16.0	18	0.8	15.0	15.0	2.8	21 473 +2E*^	500
	0.4700	12.0	21.0	18	0.8	15.0	15.0	-	21 474 +2E*^	500
400VDC	0.0022	4.0	9.0	13	0.6	10.0	10.0	0.6	21 222 +2G*^	500
	0.0033	5.0	11.0	13	0.6	10.0	10.0	0.8	21 332 +2G*^	500
	0.0047	5.0	11.0	13	0.6	10.0	10.0	0.8	21 472 +2G*^	500
	0.0100	5.0	10.8	18	0.8	15.0	15.0	1.1	21 103 +2G*^	500
	0.0220	7.5	13.5	18	0.8	15.0	15.0	2.0	21 223 +2G*^	500
	0.0470	10.0	16.0	18	0.8	15.0	15.0	2.8	21 473 +2G*^	500
630VDC	0.0022	5.0	11.0	13	0.6	10.0	10.0	0.8	21 222 +2J*^	500
	0.0033	6.0	12.0	13	0.6	10.0	10.0	0.9	21 332 +2J*^	500
	0.0047	6.0	12.0	13	0.6	10.0	10.0	0.9	21 472 +2J*^	500
	0.0100	5.0	10.8	18	0.8	15.0	15.0	1.1	21 103 +2J*^	500
	0.0220	7.5	13.5	18	0.8	15.0	15.0	2.0	21 223 +2J*^	500
	0.1000	11.0	16.0	28	0.8	22.5	22.5	-	21 474 +2J*^	250
1000VDC	0.0010	6.0	12.0	13	0.6	10.0	10.0	-	21 102 +3A*^	500
	0.0100	6.0	12.0	18	0.8	15.0	15.0	-	21 103 +3A*^	500
	0.1000	14.0	28.0	32	0.8	27.5	27.5	-	21 104 +3A*^	250



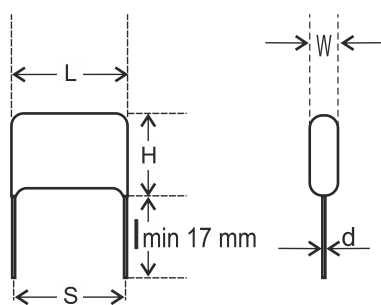
# Plain Polypropylene Film Capacitors

Non-Inductive • Series Code 21, 32



## Ordering code and packaging unit: Plain Polypropylene Film Capacitors (Non-Inductive) Dip Type • Series Code 32

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)						Wt. g	Ordering code	Packing units Bulk
		W (max)	H (max)	L (max)	d ±0.05	S ±0.75	F ±0.5			
250VDC	0.015	6.0	11.0	14	0.6	10.0	10.0	0.5	32 153 +2E*^	500
	0.022	5.5	10.5	19	0.8	15.0	15.0	0.7	32 223 +2E*^	500
	0.033	6.0	11.0	19	0.8	15.0	15.0	0.9	32 333 +2E*^	500
	0.047	6.0	13.5	19	0.8	15.0	15.0	1.2	32 473 +2E*^	500
	0.1	6.5	15.5	27	0.8	22.5	22.5	1.6	32 104 +2E*^	250
	0.22	9.0	18.0	27	0.8	22.5	22.5	1.8	32 224 +2E*^	250
	0.33	11.0	20.5	27	0.8	22.5	22.5	2.1	32 334 +2E*^	250
	0.47	13.5	22.5	27	0.8	22.5	22.5	3.8	32 474 +2E*^	500
400VDC	0.01	6.0	13.5	19	0.8	15.0	15.0	0.5	32 103 +2G*^	500
	0.033	7.0	15.0	19	0.8	15.0	15.0	1.1	32 333 +2G*^	500
	0.047	8.0	17.0	19	0.8	15.0	15.0	1.4	32 473 +2G*^	250
	0.1	9.0	18.0	27	0.8	22.5	22.5	2.7	32 104 +2G*^	250
	0.22	11.5	21.0	32	0.8	27.5	27.5	4.5	32 224 +2G*^	250
630VDC	0.0022	5.5	10.5	14	0.6	10.0	10.0	0.7	32 222 +2J*^	500
	0.0047	6.5	13.5	14	0.6	10.0	10.0	0.9	32 472 +2J*^	500
	0.0056	5.5	12.0	19	0.8	15.0	15.0	1.2	32 682 +2J*^	500
	0.01	6.0	13.5	19	0.8	15.0	15.0	1.5	32 103 +2J*^	250
	0.022	8.0	17.0	19	0.8	15.0	15.0	2.0	32 223 +2J*^	250
	0.047	9.0	18.0	27	0.8	22.5	22.5	2.8	32 473 +2J*^	250
	0.1	11.5	21.0	32	0.8	27.5	27.5	3.5	32 104 +2J*^	250
1000VDC	0.015	8.0	15.0	19	0.8	15.0	15.0	-	32 153 +3A*^	500
	0.1	9.0	17.5	32	0.8	27.5	27.5	-	32 104 +3A*^	250
	0.47	15.5	26.0	41	1.0	37.5	37.5	-	32 474 +3A*^	100



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