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

Maximum Operating Temperature
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%

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
ΔC/C: ≤ 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.

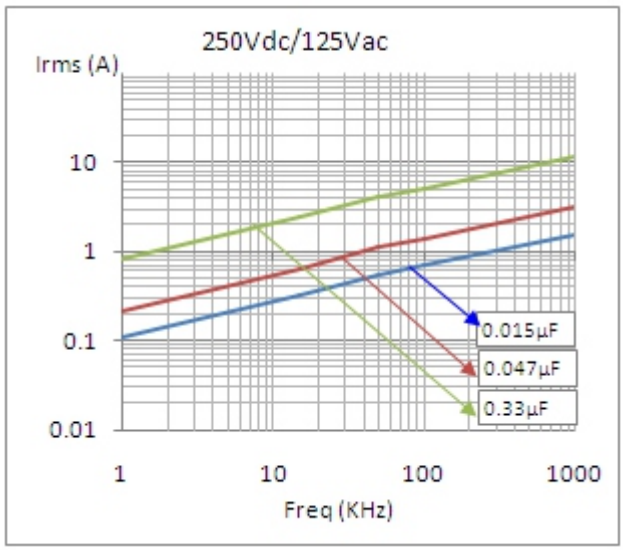
Insulation Resistance

Minimum Insulation Resistance R_{IS}	V_R	C_R≤0.1 µF	C_R>0.1 µF
(or) time constant $T = C_R \times R_{IS}$	≤100 V DC	100 GΩ	10000s

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)



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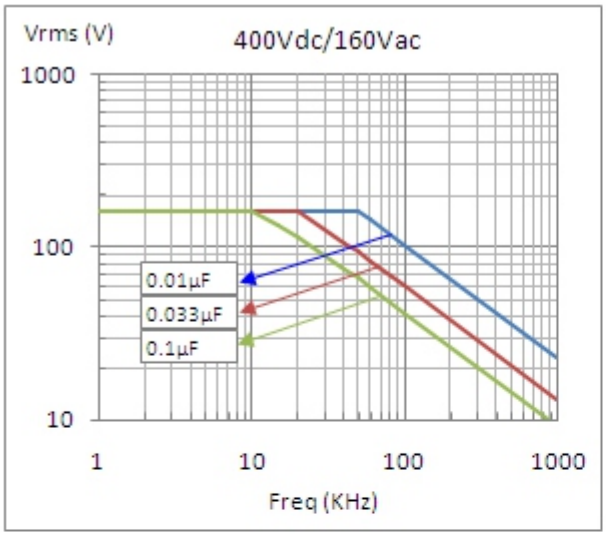
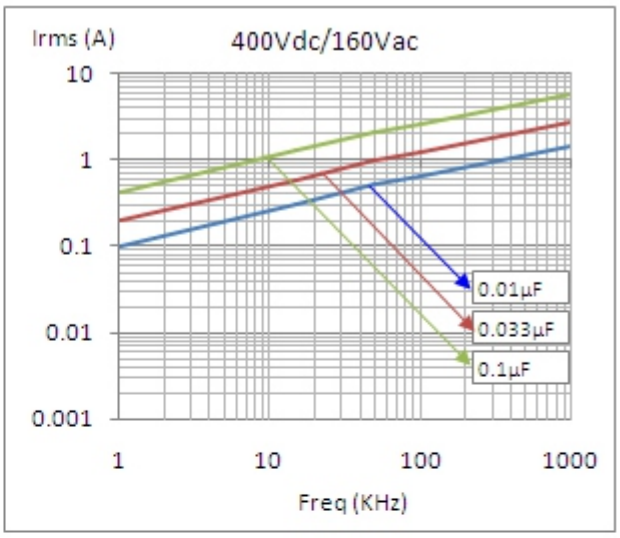
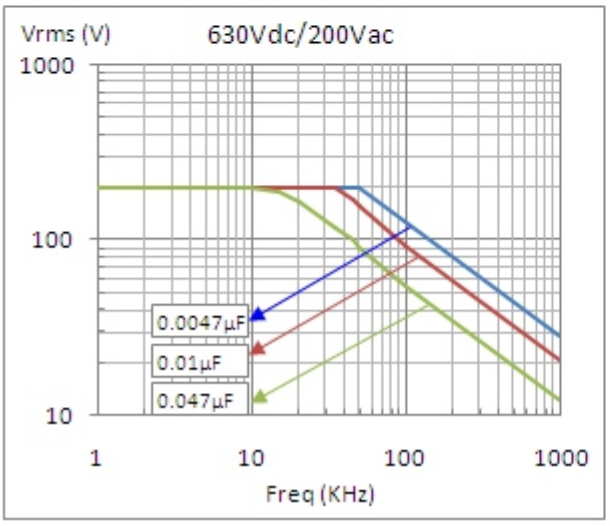
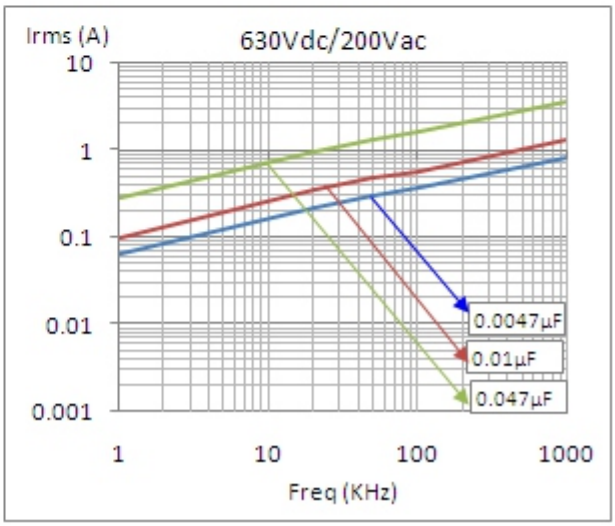
Max. Voltage (Vrms) vs. Frequency
(Sinusoidal Waveform at T ≤ 85° C)

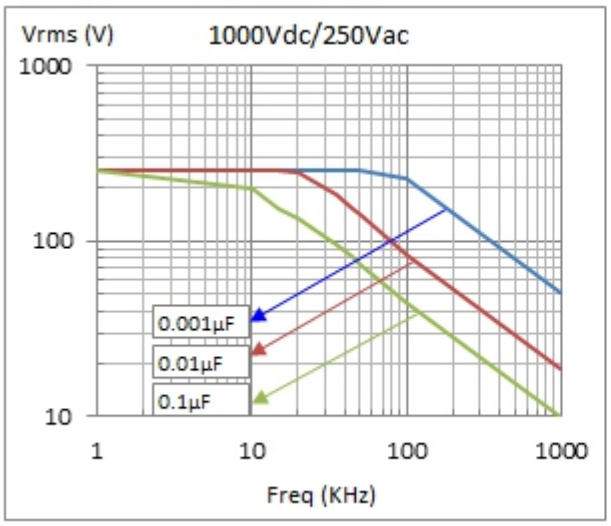


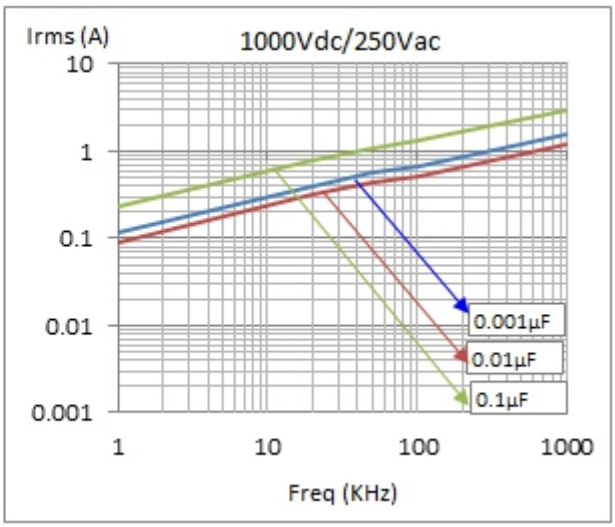
Max. Current (Irms) vs. Frequency
(Sinusoidal Waveform at T ≤ 85° C)











Plain Polypropylene Film Capacitors

Non-Inductive • Series Code 21, 32

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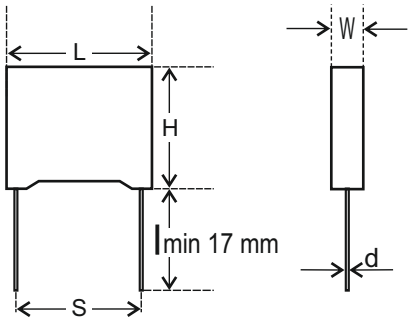
Ordering code and packaging unit: Plain Polypropylene Film Capacitors (Non-Inductive) Box Type • Series Code 21

Rated Voltage	Rated Cap. (µF)	Dimensions (mm) W ±0.5	H ±0.5	L ±0.5	d ±0.05	S ±0.75	F ±0.5	Wt. g	Ordering code	Packing units Bulk
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

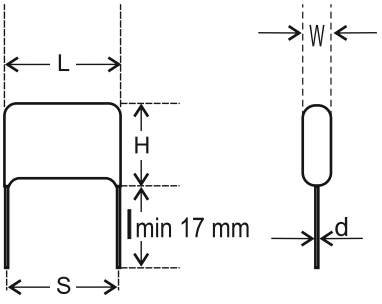


Plain Polypropylene Film Capacitors

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) W (max)	H (max)	L (max)	d ±0.05	S ±0.75	F ±0.5	Wt. g	Ordering code	Packing units Bulk
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