



## PLAIN POLYPROPYLENE FILM CAPACITORS (NON INDUCTIVE - DIP/BOX TYPE)

**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 (DIP/BOX TYPE):** 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

**APPLICABLE SPECIFICATION:** IEC 384-13

**CAPACITANCE VALUE, RATED VOLTAGE (DC):** Refer dimension chart.

**CAPACITANCE TOLERANCE:**  $\pm 5\%$ ,  $\pm 10\%$

**VOLTAGE PROOF**

Between terminals: 2 times of rated voltage for 2 seconds.

**INSULATION RESISTANCE**

Minimum insulation resistance between terminals: 100 G $\Omega$  at 25° C, relative humidity  $\leq 70\%$ .

**TAN  $\delta$  AT 20° C**

0.08% (maximum) at 10 kHz.

**LIFE TEST CONDITIONS (Loading at elevated temperature)**

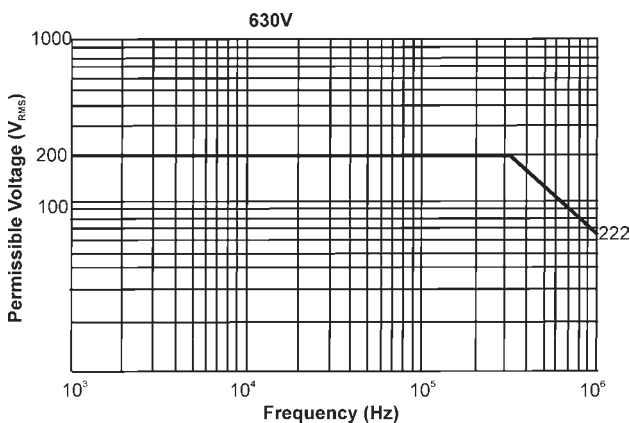
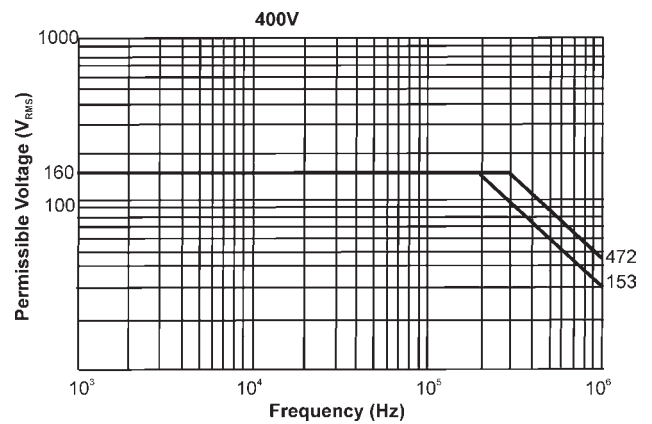
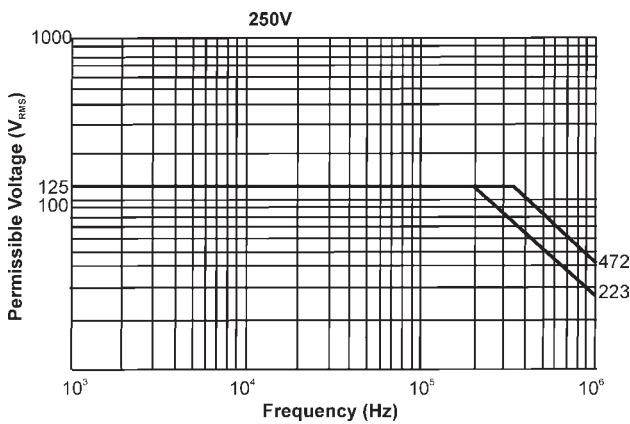
Loaded at 1.5 times of rated voltage at 85° C or 1.5 times of category voltage at 100° C for 1000 hours. Category voltage is 80% of rated voltage.

**AFTER THE TEST**

$\Delta c/c$ :  $\leq 3\% \pm 5$  pfd of initial value.

**Change in Tan  $\delta$ :**  $\leq 1.4$  times the value measured before the test  
**Insulation resistance:**  $\geq 50\%$  of the value mentioned in IR chart.

Permissible AC Voltage  $V_{RMS}$  vs. Frequency F at Ambient Temperature 25° C



Ordering Code and Packing Units: Plain Polypropylene Film Capacitors (Non inductive)

Rated Voltage	Rated Cap. (µf)	Maximum Dimensions (mm)						Dv/Dt V/µs	Wt g	Ordering code	Packing units		
		W	H	L	d ±0.05	S ±0.5	F +0.8/-0.2				Ammo	Bulk	
250V DC	0.015	6.0	11.0	14	0.6	10.0	10	9900	0.5	32 153 +2E**	1100	2000	
	0.022	5.5	10.5	19	0.8	15.0	15	4800	0.7	32 223 +2E**	1100	1000	
	0.033	6.0	11.0	19	0.8	15.0	15	4800	0.9	32 333 +2E**	1100	1000	
	0.047	6.0	13.5	19	0.8	15.0	15	4800	1.2	32 473 +2E**	1100	1000	
	0.1	6.5	15.5	27	0.8	22.5	-	2400	1.6	32 104 +2E**	650	400	
	0.22	9.0	18.0	27	0.8	22.5	-	2400	1.8	32 224 +2E**	450	400	
	0.33	11.0	20.5	27	0.8	22.5	-	2400	2.1	32 334 +2E**	380	400	
	0.47	13.5	22.5	27	0.8	22.5	-	2400	3.8	32 474 +2E**	-	400	
400V DC	0.01	6.0	13.5	19	0.8	15.0	15	6000	0.5	32 103 +2G**	1100	1000	
	0.015	6.0	13.5	19	0.8	15.0	15	6000	0.6	32 153 +2G**	1100	1000	
	0.022	6.0	13.5	19	0.8	15.0	15	6000	0.8	32 223 +2G**	1100	1000	
	0.033	7.0	15.0	19	0.8	15.0	15	6000	1.1	32 333 +2G**	950	1000	
	0.047	8.0	17.0	19	0.8	15.0	15	6000	1.4	32 473 +2G**	800	1000	
	0.1	9.0	18.0	27	0.8	22.5	-	3000	2.7	32 104 +2G**	450	400	
	0.22	11.5	21.0	32	0.8	27.5	-	1500	4.5	32 224 +2G**	-	200	
	0.47	13.5	22.5	32	0.8	27.5	-	1500	4.5	32 224 +2G**	-	200	
630V DC	0.0022	5.5	10.5	14	0.6	10.0	10	15000	0.7	32 222 +2J**	1100	2000	
	0.0047	6.5	13.5	14	0.6	10.0	10	15000	0.9	32 472 +2J**	1100	2000	
	0.0056	5.5	12.0	19	0.8	15.0	15	7500	1.2	32 562 +2J**	1100	1000	
	0.01	6.0	13.5	19	0.8	15.0	15	7500	1.5	32 103 +2J**	1100	1000	
	0.022	8.0	17.0	19	0.8	15.0	15	7500	2.0	32 223 +2J**	800	1000	
	0.047	9.0	18.0	27	0.8	22.5	-	3800	2.8	32 473 +2J**	450	400	
	0.1	11.5	21.0	32	0.8	27.5	-	2000	3.5	32 104 +2J**	-	200	
	0.47	13.5	22.5	32	0.8	27.5	-	2000	3.5	32 104 +2J**	-	200	
250V DC	0.0033	4.0	9.0	13.0	0.6	10	10	9900	0.6	21 332 +2E**	1100	500	
	0.0047	4.0	9.0	13.0	0.6	10	10	9900	0.6	21 472 +2E**	1100	500	
	0.0068	5.0	11.0	13.0	0.6	10	10	9900	0.8	21 682 +2E**	1100	500	
	0.01	6.0	12.0	13.0	0.6	10	10	9900	0.9	21 103 +2E**	1000	500	
	0.015	5.0	10.8	18.0	0.8	15	15	4800	1.1	21 153 +2E**	1000	500	
	0.022	6.0	11.9	18.0	0.8	15	15	4800	1.5	21 223 +2E**	1000	500	
	0.033	7.5	13.5	18.0	0.8	15	15	4800	2.0	21 333 +2E**	1000	500	
	0.047	10.0	16.0	18.0	0.8	15	15	4800	2.8	21 473 +2E**	1000	500	
	400V DC	0.0022	4.0	9.0	13.0	0.6	10	10	12000	0.6	21 222 +2G**	1100	500
		0.0033	5.0	11.0	13.0	0.6	10	10	12000	0.8	21 332 +2G**	1100	500
		0.0047	5.0	11.0	13.0	0.6	10	10	12000	0.8	21 472 +2G**	1100	500
		0.0068	6.0	12.0	13.0	0.6	10	10	12000	0.9	21 682 +2G**	1100	500
		0.01	5.0	10.8	18.0	0.8	15	15	6000	1.1	21 103 +2G**	1000	500
		0.015	6.0	11.9	18.0	0.8	15	15	6000	1.5	21 153 +2G**	1000	500
		0.022	7.5	13.5	18.0	0.8	15	15	6000	2.0	21 223 +2G**	1000	500
0.033		8.5	14.5	18.0	0.8	15	15	6000	2.6	21 333 +2G**	1000	500	
0.047	10.0	16.0	18.0	0.8	15	15	6000	2.8	21 473 +2G**	1000	500		
630 V DC	0.0022	5.0	11.0	13.0	0.6	10	10	15000	0.8	21 222 +2J**	1100	500	
	0.0033	6.0	12.0	13.0	0.6	10	10	15000	0.9	21 332 +2J**	1100	500	
	0.0047	6.0	12.0	13.0	0.6	10	10	15000	0.9	21 472 +2J**	1100	500	
	0.01	5.0	10.8	18.0	0.8	15	15	11000	1.1	21 103 +2J**	1000	500	
	0.012	5.0	10.8	18.0	0.8	15	15	11000	1.1	21 123 +2J**	1000	500	
	0.015	6.0	11.9	18.0	0.8	15	15	11000	1.5	21 153 +2J**	1000	500	
	0.018	6.0	11.9	18.0	0.8	15	15	11000	1.5	21 183 +2J**	1000	500	
	0.022	7.5	13.5	18.0	0.8	15	15	11000	2.0	21 223 +2J**	1000	500	
	0.027	7.5	13.5	18.0	0.8	15	15	11000	2.0	21 273 +2J**	1000	500	
	0.033	8.5	14.5	18.0	0.8	15	15	11000	2.6	21 333 +2J**	1000	500	
	0.039	10.0	16.0	18.0	0.8	15	15	11000	2.8	21 393 +2J**	1000	500	
	0.047	10.0	16.0	18.0	0.8	15	15	11000	2.8	21 473 +2J**	1000	500	

Dip type

Box type

NOTE

- Replace the + by the code letter for the required tolerance.  
F:±1%, G:±2%, H:±2.5%, J:±5%, K:±10%, M:±20%
- Replace \* by the code letter for packing type.  
1 : Bulk Packing  
2 : Bulk Packing (After forming & cutting)  
3 : Ammo Packing (F&T)  
4 : Bulk Packing (forming in original pitch)  
5 : Bulk Packing (formed & without cut)  
6 : Ammo Packing (Straight Lead)  
7 : Bulk Packing (Straight Lead cut)
- Replace ^ by the code letter indicated drawing reference.  
A : As per the catalogue  
B-Z : customer drawing reference
- These are the most popular values. Other values in the range are available on request.  
For dimensions, please refer to the closest higher value.

The dv/dt test is carried out for 2 times above value. For box type dimensions, variation for W, H and L is ±0.2.

