



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

**MAIN APPLICATION:** Blocking, bypassing, filtering, coupling and decoupling, interference suppression in low voltage applications, low pulse applications.

**CONSTRUCTION:** Film/foil inductive type construction with aluminum foil as electrode and polyester (PET) film as dielectric coated with flame retardant epoxy resin (or, encased in flame retardant box).

**CLIMATIC CATEGORY:** 40/100/56

**MAX. TEMPERATURE RATING:** 125° C

**APPLICABLE SPECIFICATION:** IEC 384-11

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

**CAPACITANCE TOLERANCE:** ± 5%, ± 10%

**VOLTAGE PROOF (Between terminals):**  
2 times of rated voltage for 2 seconds.

**INSULATION RESISTANCE:**

Minimum Insulation Resistance $R_{IS}$	$V_R$	$C_R \leq 0.33 \mu f$	$C_R > 0.33 \mu f$
(or) time constant $T=C_R \times R_{IS}$	$\leq 100V$ DC	30,000 M $\Omega$	10000s
at 25° C, relative humidity $\leq 70\%$	$\geq 250V$ DC	30,000 M $\Omega$	10000s

**TAN  $\delta$ :** 0.8% (maximum) at 1 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**

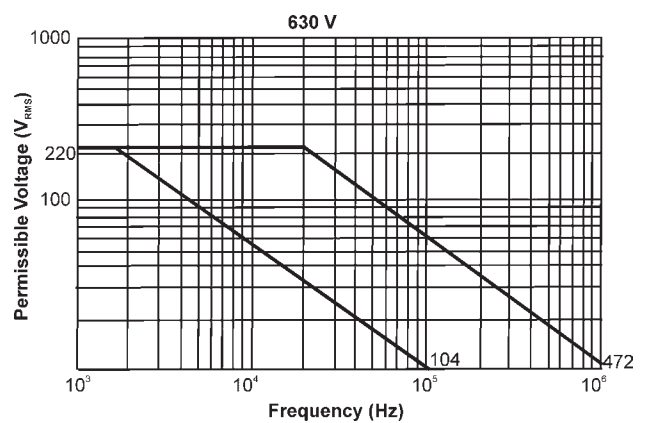
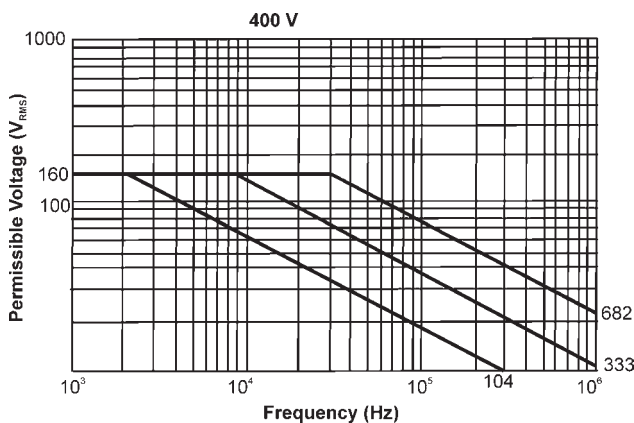
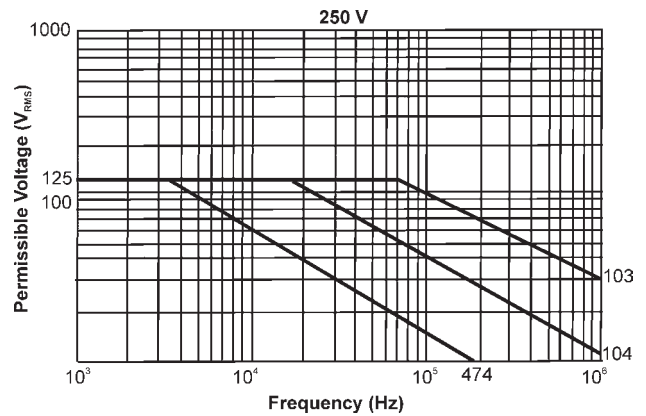
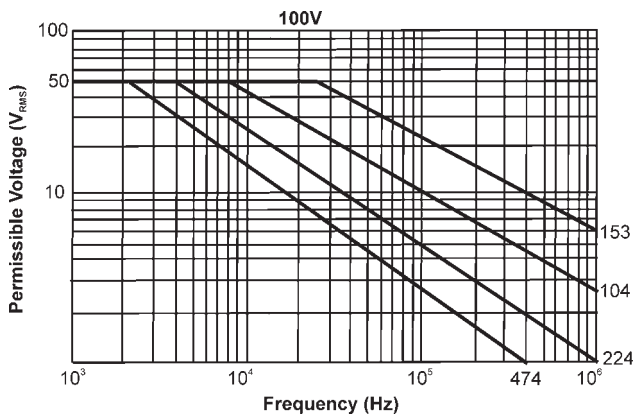
**$\Delta c/c$ :**  $\leq 5\%$  of initial value.

**Change in Tan  $\delta$ :**  $\leq 0.01$  or 1.2 times the value measured before the test, whichever is higher.

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

**APPROVALS:** Tested at ERTL (North) as per IEC 384-11.

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



Ordering Code and Packing Units: Plain Polyester Film Capacitors (Film/Foil 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
100V DC	0.015	4.5	9.5	14	0.6	10.0	10	10000	0.4	25 153 +2A <sup>^^</sup>	1100	2000
	0.022	5.5	10.0	14	0.6	10.0	10	10000	0.6	25 223 +2A <sup>^^</sup>	1100	2000
	0.033	6.0	10.5	14	0.6	10.0	10	10000	0.7	25 333 +2A <sup>^^</sup>	1100	2000
	0.047	7.0	11.5	14	0.6	10.0	10	10000	0.9	25 473 +2A <sup>^^</sup>	1100	2000
	0.1	7.5	13.0	19	0.8	15.0	15	10000	1.7	25 104 +2A <sup>^^</sup>	600	1000
	0.22	7.5	15.5	27	0.8	22.5	-	10000	3.2	25 224 +2A <sup>^^</sup>	-	4000
	0.33	9.0	17.0	27	0.8	22.5	-	10000	4.4	25 334 +2A <sup>^^</sup>	-	400
	0.47	11.0	19.0	27	0.8	22.5	-	10000	6.0	25 474 +2A <sup>^^</sup>	-	400
250V DC	0.01	5.0	9.5	14	0.6	10.0	10	10000	0.5	25 103 +2E <sup>^^</sup>	1100	2000
	0.015	5.5	10.0	14	0.6	10.0	10	10000	0.6	25 153 +2E <sup>^^</sup>	1100	2000
	0.022	6.5	11.0	14	0.6	10.0	10	10000	0.8	25 223 +2E <sup>^^</sup>	1100	2000
	0.033	5.5	11.0	19	0.8	15.0	15	10000	1.1	25 333 +2E <sup>^^</sup>	1100	1000
	0.047	7.0	12.5	19	0.8	15.0	15	10000	1.4	25 473 +2E <sup>^^</sup>	650	1000
	0.1	7.5	15.0	27	0.8	22.5	-	10000	2.7	25 104 +2E <sup>^^</sup>	-	400
	0.22	10.0	18.0	27	0.8	22.5	-	10000	4.5	25 224 +2E <sup>^^</sup>	-	400
	0.33	10.5	19.5	32	0.8	27.5	-	10000	6.3	25 334 +2E <sup>^^</sup>	-	200
400V DC	0.0068	6.0	12.0	14	0.6	10.0	10	10000	0.5	25 682 +2G <sup>^^</sup>	1100	2000
	0.01	6.0	10.5	14	0.6	10.0	10	10000	0.7	25 103 +2G <sup>^^</sup>	1100	2000
	0.015	6.5	12.0	19	0.6	15.0	15	10000	0.9	25 153 +2G <sup>^^</sup>	1100	1000
	0.022	7.0	13.0	19	0.8	15.0	15	10000	1.2	25 223 +2G <sup>^^</sup>	1100	1000
	0.033	7.5	13.0	19	0.8	15.0	15	10000	1.6	25 333 +2G <sup>^^</sup>	500	1000
	0.039	8.0	14.0	19	0.8	15.0	15	10000	1.8	25 393 +2G <sup>^^</sup>	800	1000
	0.047	8.0	14.0	19	0.8	15.0	15	10000	2.1	25 473 +2G <sup>^^</sup>	700	1000
	0.1	11.0	19.0	19	0.8	15.0	15	10000	3.8	25 104 +2G <sup>^^</sup>	600	1000
630V DC	0.0047	6.0	10.5	14	0.6	10.0	10	10000	0.7	25 472 +2J <sup>^^</sup>	1100	2000
	0.0068	7.0	11.5	14	0.6	10.0	10	10000	0.9	25 682 +2J <sup>^^</sup>	1100	2000
	0.01	6.0	11.5	19	0.8	15.0	15	10000	1.2	25 103 +2J <sup>^^</sup>	1100	1000
	0.015	7.5	13.0	19	0.8	15.0	15	10000	1.5	25 153 +2J <sup>^^</sup>	900	1000
	0.022	8.5	14.0	19	0.8	15.0	15	10000	2.0	25 223 +2J <sup>^^</sup>	500	1000
	0.033	7.5	15.5	27	0.8	22.5	-	10000	2.8	25 333 +2J <sup>^^</sup>	-	400
	0.047	9.0	17.0	27	0.8	22.5	-	10000	3.5	25 473 +2J <sup>^^</sup>	-	400
1000V DC	0.01	5.2	11.2	13.2	0.8	10.0	-	10000	0.6	31 103 +3A <sup>^^</sup>	-	500

Dip 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.

Box Type

