



PLAIN POLYPROPYLENE FILM CAPACITORS (INDUCTIVE TYPE)

MAIN APPLICATION: Oscillator, timing and LC/RC filter circuits, high frequency coupling of fast digital and analog ICs.

CONSTRUCTION: Film/foil inductive type construction with aluminum foil as electrode and PP film as dielectric coated with flame retardant epoxy resin.

CLIMATIC CATEGORY: 40/100/56

APPLICABLE SPECIFICATION: IEC 384-13

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

CAPACITANCE TOLERANCE: ±5%, ±10%

VOLTAGE PROOF

Between terminals: 2 times of rated voltage.

INSULATION RESISTANCE

Minimum Insulation Resistance R_{IS} $V_R \leq 100V$ DC $C_R \leq 0.33 \mu f$ $C_R > 0.33 \mu f$
 (or) time constant $T=C_R \times R_{IS}$ $\leq 100V$ DC 100 GΩ 100 GΩ
 at 25° C, relative humidity ≤ 70% $> 100V$ DC 100 GΩ 100 GΩ

TAN δ AT 20° C
0.08% (maximum) at 10 kHz.

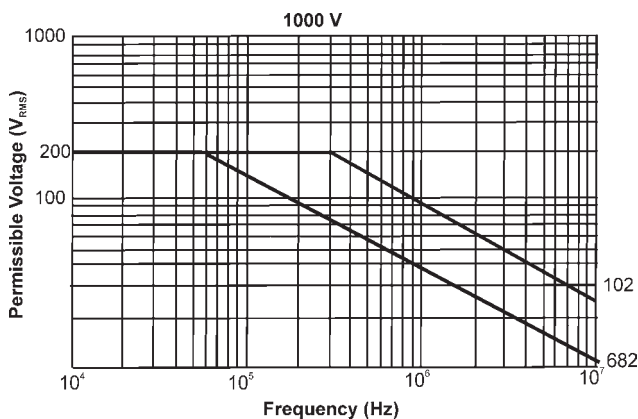
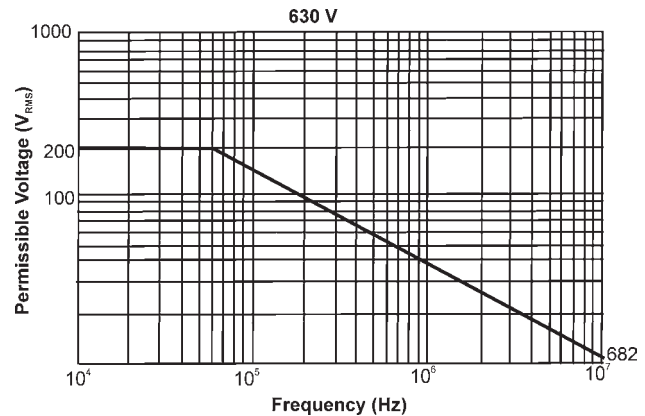
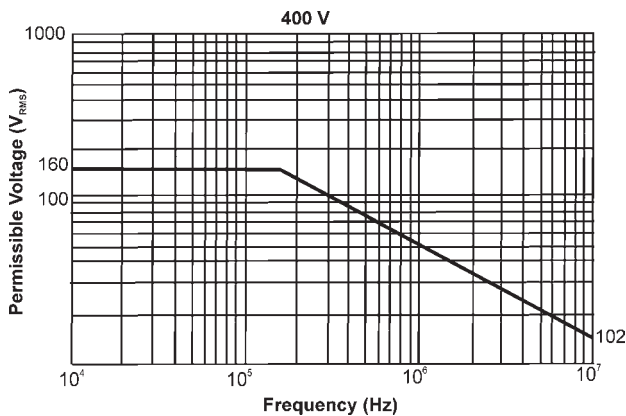
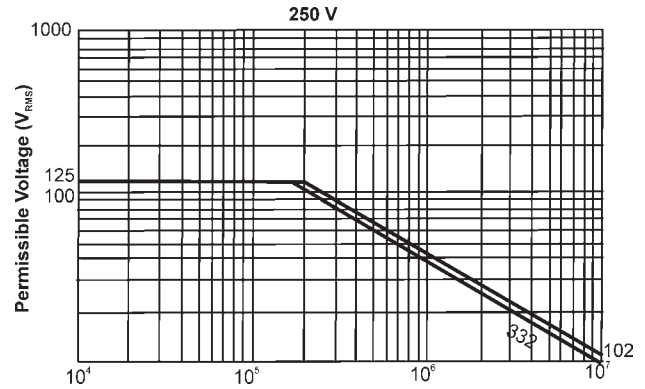
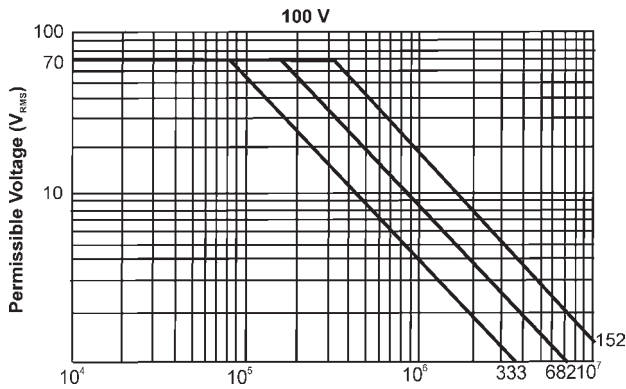
LIFE TEST CONDITIONS (Loading at elevated temperature)
Loaded at 1.5 times of rated voltage at 85° C or 1.5 times of category voltage at 100° C for 1000 hours. Category voltage is 80% of rated voltage.

AFTER THE TEST

$\Delta c/c$: ≤ 3% ±5 pfd of initial value.

Change in Tan δ: ≤ 1.4 times the value measured before the test
Insulation resistance: ≥ 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 (Inductive Type)

Rated Voltage	Rated Cap. (µf)	Maximum Dimensions (mm)						Dv/Dt V/µs	Wt g	Ordering code	Packing units	
		L	H	W	d	S	F				Ammo	Bulk
		±0.05				±0.5	+0.8/-0.2					
100V DC	0.00022	8.5	13	5.5	0.5	5.0	5	10000	0.38	03 221 +2A**	4000	2000
	0.00027	8.5	13	5.5	0.5	5.0	5	10000	0.40	03 271 +2A**	3500	2000
	0.00033	8.5	13	5.5	0.5	5.0	5	10000	0.40	03 331 +2A**	3500	2000
	0.00047	6.5	12	4.5	0.5	4.0	5	10000	0.17	03 471 +2A**	4500	2000
	0.00068	6.5	12	4.5	0.5	4.0	5	10000	0.19	03 681 +2A**	4500	2000
	0.001	6.5	12	4.0	0.5	4.0	5	10000	0.22	03 102 +2A**	4500	2000
	0.0015	6.5	12	4.0	0.5	4.0	5	10000	0.20	03 152 +2A**	4500	2000
	0.0022	6.5	12	4.5	0.5	4.0	5	10000	0.20	03 222 +2A**	4500	2000
	0.0033	6.5	12	4.5	0.5	4.5	5	10000	0.24	03 332 +2A**	4500	2000
	0.0039	7.0	12	4.5	0.5	4.5	5	10000	0.25	03 392 +2A**	4500	2000
	0.0047	7.0	12	4.5	0.5	4.5	5	10000	0.28	03 472 +2A**	4500	2000
	0.0068	7.0	12	4.5	0.5	4.5	5	10000	0.30	03 682 +2A**	4500	2000
	0.01	7.5	12	4.5	0.5	5.0	5	10000	0.30	03 103 +2A**	4500	2000
	0.022	9.0	12	5.0	0.5	6.0	5	10000	0.35	03 223 +2A**	4000	2000
	0.033	9.0	13	5.5	0.5	7.0	5	10000	0.37	03 333 +2A**	2500	2000
	0.047	9.5	13	5.5	0.5	7.5	5	10000	0.60	03 473 +2A**	2000	2000
	0.082	11.0	14	6.5	0.5	7.5	-	10000	0.82	03 823 +2A**	2000	2000
	0.1	11.5	14	7.0	0.5	7.5	-	10000	0.95	03 104 +2A**	2000	2000
250V DC	0.00022	8.5	13	5.5	0.5	5.0	5	10000	0.38	03 221 +2E**	4000	2000
	0.00033	8.5	13	5.5	0.5	5.0	5	10000	0.40	03 331 +2E**	4500	2000
	0.00039	8.5	13	5.5	0.5	5.0	5	10000	0.42	03 391 +2E**	4500	2000
	0.00047	6.5	12	4.5	0.5	4.0	5	10000	0.17	03 471 +2E**	4500	2000
	0.00068	6.5	12	4.5	0.5	4.0	5	10000	0.19	03 681 +2E**	4500	2000
	0.00082	8.5	13	5.5	0.5	4.0	5	10000	0.22	03 821 +2E**	4500	2000
	0.001	6.5	12	4.0	0.5	4.0	5	10000	0.22	03 102 +2E**	4500	2000
	0.0022	6.5	12	4.5	0.5	4.0	5	10000	0.24	03 222 +2E**	4500	2000
	0.0033	6.5	12	4.5	0.5	4.5	5	10000	0.45	03 332 +2E**	4500	2000
	0.0047	7.0	12	4.5	0.5	4.5	5	10000	0.85	03 472 +2E**	4500	2000
	0.0068	7.0	12	4.5	0.5	4.5	5	10000	0.84	03 682 +2E**	4500	2000
	0.01	8.5	12	5.0	0.5	5.5	5	10000	0.85	03 103 +2E**	4000	2000
400V DC	0.001	6.5	12	4.0	0.5	4.0	5	10000	0.22	03 102 +2G**	4500	2000
	0.0015	6.5	12	4.0	0.5	4.0	5	10000	0.24	03 152 +2G**	4500	2000
	0.0022	6.5	12	4.5	0.5	4.0	5	10000	0.24	03 222 +2G**	4500	2000
	0.0033	7.5	14	5.0	0.5	5.0	5	10000	0.45	03 332 +2G**	4500	2000
	0.0047	7.5	14	5.0	0.5	5.0	5	10000	0.55	03 472 +2G**	2500	2000
	0.0056	8.5	14	5.0	0.5	5.5	5	10000	0.60	03 562 +2G**	2500	2000
630V DC	0.001	6.5	12	4.0	0.5	4.0	5	10000	0.24	03 102 +2J**	4500	2000
	0.0015	6.5	12	4.0	0.5	4.0	5	10000	0.36	03 152 +2J**	4500	2000
	0.0022	7.5	13	4.5	0.5	5.0	5	10000	0.32	03 222 +2J**	4500	2000
	0.0033	8.5	13	5.0	0.5	5.0	5	10000	0.28	03 332 +2J**	4000	2000
	0.0047	9.5	13	6.0	0.5	5.0	5	10000	0.45	03 472 +2J**	2500	2000
	0.0068	9.5	14	6.5	0.5	5.5	5	10000	0.60	03 682 +2J**	1500	2000
	0.01	10.5	14	7.0	0.5	7.5	5	10000	0.75	03 103 +2J**	1500	2000
	0.022	13.0	18	9.0	0.5	8.5	5	10000	1.12	03 223 +2J**	1500	1000
1000V DC	0.001	7.5	13	5.0	0.5	4.5	5	10000	0.28	03 102 +3A**	4500	2000
	0.0022	7.5	14	5.0	0.5	5.0	5	10000	0.28	03 222 +3A**	4500	2000
	0.0033	8.5	14	5.0	0.5	5.0	5	10000	0.35	03 332 +3A**	4000	2000
	0.0047	10.0	14	6.5	0.5	5.0	5	10000	0.36	03 472 +3A**	2500	2000
	0.0068	10.5	14	7.0	0.5	6.0	5	10000	0.55	03 682 +3A**	2500	2000

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.

