



PLAIN POLYPROPYLENE & PLAIN POLYESTER FILM (PEP) CAPACITORS (INDUCTIVE TYPE)

MAIN APPLICATION: Oscillator, timing and LC/RC filter circuits, snubber circuits, high frequency coupling of fast digital and analog ICs; wherever stable capacitance w.r.t. frequency and temperature is required. Mainly used in CFL and where stable temperature characteristics are required.

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

CLIMATIC CATEGORY: 40/100/56

MAX OPERATING TEMPERATURE: 110° C

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

CAPACITANCE TOLERANCE: ±1%, ±2%, ±2.5%, ±5%, ±10%

INSULATION RESISTANCE

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

VOLTAGE PROOF

Between terminals: 2 times of rated voltage.

TAN δ

0.25% (maximum) at 1.0 kHz.
0.50% at 100 kHz.

LIFE TEST CONDITIONS (Loading at elevated temperature)

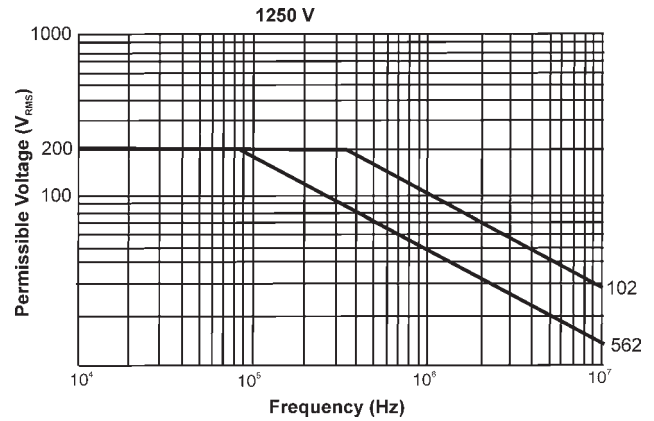
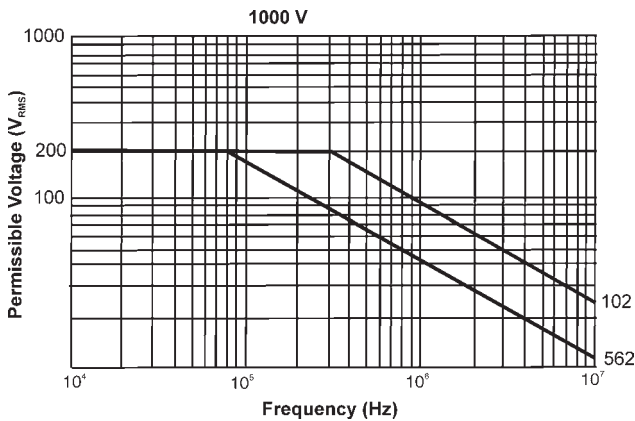
Loaded at 1.5 times of rated voltage at 85° C or 1.5 times of category voltage at 100° C for 1000 hours. Category voltage is 80% of rated voltage.

AFTER THE TEST

$\Delta c/c$: ≤ 3% ±5 pf 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 & Plain Polyester Film (PEP) 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
1000V	0.00068	8.5	14.0	5	0.5	5.0	5	10000	0.04	38 681 +3A [^]	3500	2000
	0.001	7.5	15.0	4.0	0.5	4.5	5	10000	0.35	38 102 +3A [^]	5000	2000
	0.0015	8.5	15.0	5.0	0.5	5.0	5	10000	0.35	38 152 +3A [^]	5000	2000
	0.0022	8.5	15.0	5.0	0.5	5.0	5	10000	0.40	38 222 +3A [^]	3000	2000
	0.0027	8.5	15.0	5.5	0.5	5.0	5	10000	0.42	38 272 +3A [^]	3000	2000
	0.0033	8.5	15.0	5.5	0.5	5.0	5	10000	0.45	38 332 +3A [^]	3000	2000
	0.0039	9.5	15.0	6.5	0.5	5.0	5	10000	0.55	38 392 +3A [^]	4000	2000
	0.0047	9.5	15.0	6.5	0.5	5.0	5	10000	0.60	38 472 +3A [^]	2500	2000
1250V	0.00068	8.5	15.0	5.0	0.5	5.0	5	10000	0.55	38 681 +3B [^]	3500	2000
	0.001	7.5	15.0	4.0	0.5	5.0	5	10000	0.45	38 102 +3B [^]	3500	2000
	0.0015	8.5	15.0	5.0	0.5	5.0	5	10000	0.50	38 152 +3B [^]	3000	2000
	0.0022	8.5	15.0	5.0	0.5	5.0	5	10000	0.55	38 222 +3B [^]	3000	2000
	0.0027	8.5	15.0	5.5	0.5	5.0	5	10000	0.55	38 272 +3B [^]	2000	2000
	0.0033	9.5	15.0	6.0	0.5	5.0	5	10000	0.55	38 332 +3B [^]	2000	2000
	0.0039	9.5	15.0	6.5	0.5	5.0	5	10000	0.72	38 392 +3B [^]	1500	2000
	0.0047	9.5	15.0	6.5	0.5	5.0	5	10000	0.75	38 472 +3B [^]	1500	2000
0.0056	9.5	15.0	6.5	0.5	5.0	5	10000	0.82	38 562 +3B [^]	1500	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.

