



PLAIN POLYESTER FILM CAPACITORS (INDUCTIVE TYPE - HIGH VOLTAGE)

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.

CLIMATIC CATEGORY: 40/100/56

APPLICABLE SPECIFICATION: IEC 384-11

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 R_{IS} $C_R \leq 0.33 \mu\text{f}$ $C_R > 0.33 \mu\text{f}$
(or) time constant $T=C_R \times R_{IS}$ $100 \text{ G}\Omega$ 10000s
at 25°C , relative humidity $\leq 70\%$

TAN δ : 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:

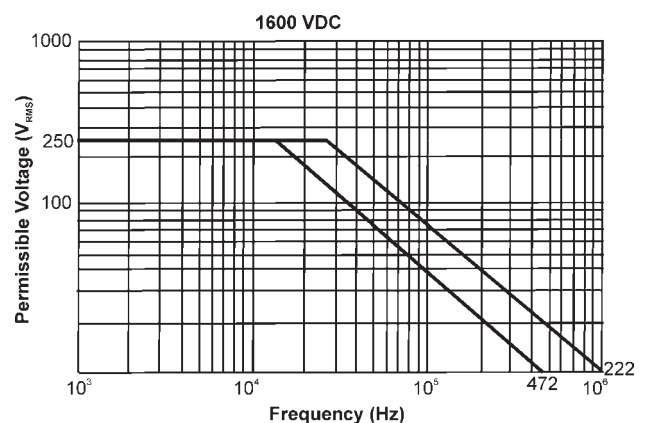
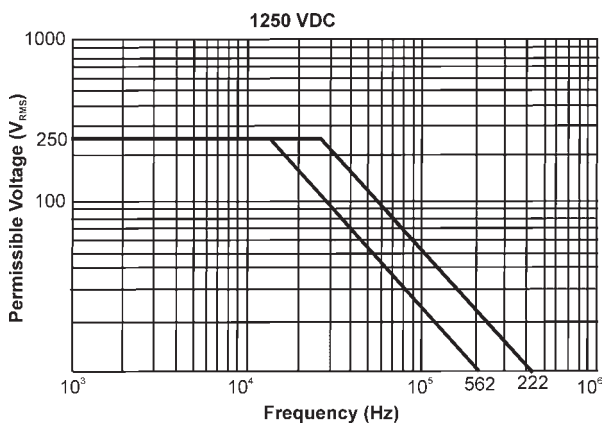
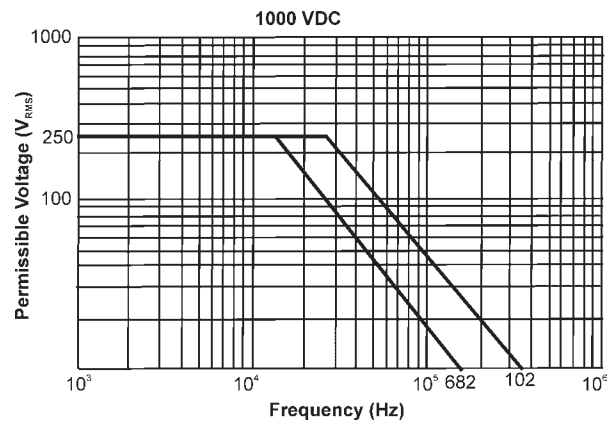
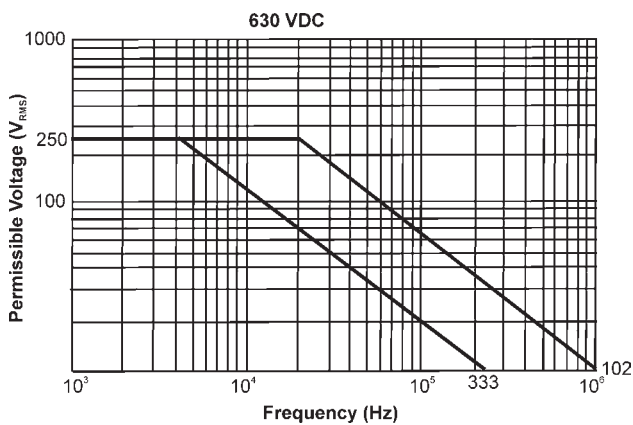
$\Delta c/c$: $\leq 5\%$ of initial value.

Change in Tan δ : ≤ 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. Approved by CACT for telecom applications.

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



Ordering Code and Packing Units: Plain Polyester Film Capacitors (Inductive Type - High Voltage)

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
630V DC	0.001	6.0	11.5	3.5	0.5	4.0	5.0	10000	0.28	01 102 +2J [^]	5000	2000
	0.0015	6.0	11.5	3.5	0.5	4.0	5.0	10000	0.3	01 152 +2J [^]	5000	2000
	0.0022	6.0	11.5	3.5	0.5	4.0	5.0	10000	0.32	01 222 +2J [^]	5000	2000
	0.0033	8.5	15.0	4.5	0.5	5.0	5.0	10000	0.45	01 332 +2J [^]	4000	2000
	0.0047	8.5	15.0	4.5	0.5	5.0	5.0	10000	0.5	01 472 +2J [^]	4000	2000
	0.0056	8.5	15.0	4.5	0.5	5.0	5.0	10000	0.52	01 562 +2J [^]	4000	2000
	0.0068	9.0	15.0	4.5	0.5	5.5	5.0	10000	0.55	01 682 +2J [^]	2000	2000
	0.0091	9.5	15.0	5.0	0.5	6.5	5.0	10000	0.55	01 912 +2J [^]	2000	2000
	0.01	10.0	15.0	5.5	0.5	7.5	7.5	10000	0.75	01 103 +2J [^]	2000	2000
	0.015	11.0	15.0	7.0	0.5	7.5	-	10000	0.80	01 153 +2J [^]	-	2000
	0.022	13.0	15.0	7.0	0.5	8.5	-	10000	1.08	01 223 +2J [^]	-	1000
	0.033	13.0	15.0	8.0	0.5	8.5	-	10000	1.7	01 333 +2J [^]	-	1000
	1000V DC	0.0022	8.5	14.0	5.0	0.5	5.0	5.0	10000	0.48	01 222 +3A [^]	4000
0.0027		9.0	14.0	5.0	0.5	5.0	5.0	10000	0.56	01 272 +3A [^]	4000	2000
0.0033		9.0	15.0	5.5	0.5	5.0	5.0	10000	0.62	01 332 +3A [^]	4000	2000
0.0039		10.0	15.0	6.0	0.5	5.0	5.0	10000	0.62	01 392 +3A [^]	4000	2000
0.0047		10.0	15.0	6.0	0.5	5.0	5.0	10000	0.72	01 472 +3A [^]	4000	2000
0.0056		10.5	15.0	6.5	0.5	5.0	5.0	10000	0.84	01 562 +3A [^]	3000	2000
0.0068		11.0	15.0	6.5	0.5	5.0	5.0	10000	0.84	01 682 +3A [^]	3000	2000
1250V DC	0.0022	8.5	15.0	5.0	0.5	5.0	5.0	10000	0.48	01 222 +3B [^]	3000	2000
	0.0027	9.0	15.0	5.0	0.5	5.0	5.0	10000	0.56	01 272 +3B [^]	3000	2000
	0.0033	9.5	15.0	6.0	0.5	5.0	5.0	10000	0.65	01 332 +3B [^]	2500	2000
	0.0039	9.5	15.0	6.5	0.5	5.0	5.0	10000	0.72	01 392 +3B [^]	2500	2000
	0.0047	11.0	15.0	7.0	0.5	5.0	5.0	10000	0.84	01 472 +3B [^]	1500	2000
1600V DC	0.0056	11.0	15.0	7.0	0.5	5.0	5.0	10000	0.85	01 562 +3B [^]	1500	2000
	0.0022	9.5	15.0	6.0	0.5	5.0	5.0	10000	0.70	01 222 +3C [^]	1500	2000
	0.0027	11.0	15.0	7.0	0.5	7.5	5.0	10000	0.75	01 272 +3C [^]	1500	2000
	0.0033	10.0	18.0	6.5	0.5	5.0	5.0	10000	0.8	01 332 +3C [^]	1500	2000
	0.0039	11.0	18.0	6.5	0.5	7.5	5.0	10000	1.0	01 392 +3C [^]	1000	2000
0.0047	12.0	18.0	7.5	0.5	7.5	5.0	10000	1.15	01 472 +3C [^]	1000	2000	

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.

