



METALLISED POLYESTER FILM CAPACITORS (DIP/BOX TYPE - STANDARD PITCH: 10.0-27.5 MM)

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

CONSTRUCTION (DIP/BOX TYPE): Low inductive cell of metallised polyester film coated with flame retardant epoxy resin (or, encased in flame retardant box).

CLIMATIC CATEGORY: 40/100/56

APPLICABLE SPECIFICATION: IEC 384-2

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

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

VOLTAGE PROOF

Between terminals: 1.6 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	3750 M Ω	1250s
at 25° C, relative humidity $\leq 70\%$	$> 100V$ DC	7500 M Ω	2500s

TAN δ AT 20° C

Frequency (kHz)	$C_R < 0.1 \mu f$	$0.1 \mu f < C_R \leq 1 \mu f$	$C_R > 1 \mu f$
At 1	0.8%	1.0%	1.0%
At 10	1.5%	1.5%	-
At 100 kHz	3.0%	3.0%	-

LIFE TEST CONDITIONS (Loading at elevated temperature)

Loaded at 1.25 times of rated voltage at 85° C or 1.25 times of category voltage at 100° C for 1000 hours. Category voltage is 80% of rated voltage at 100° C and 50% of rated voltage at 125° C

AFTER THE TEST

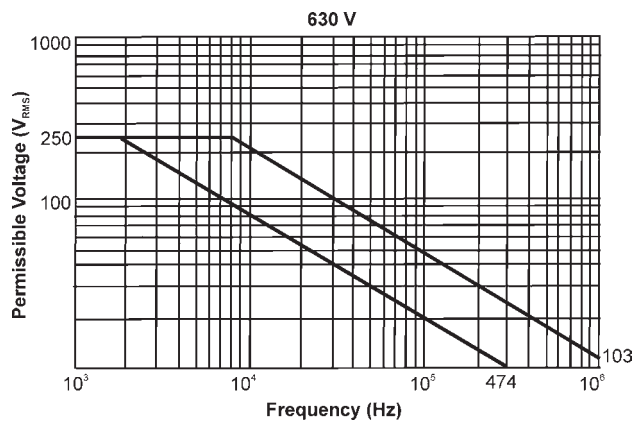
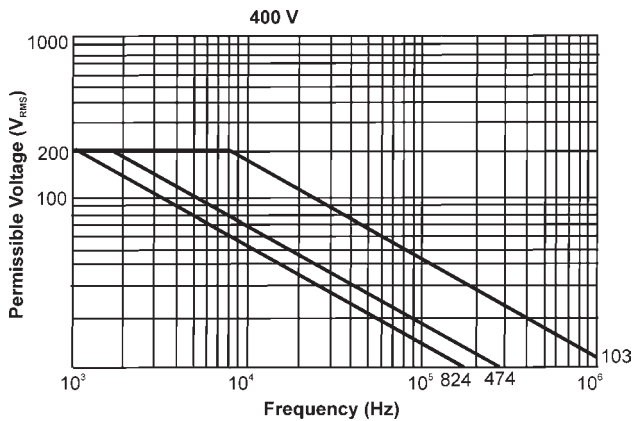
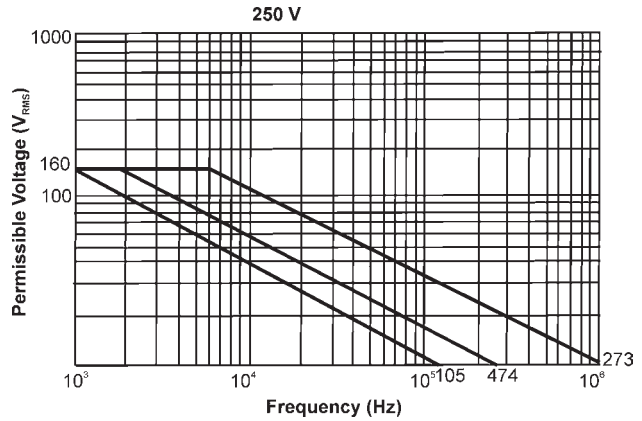
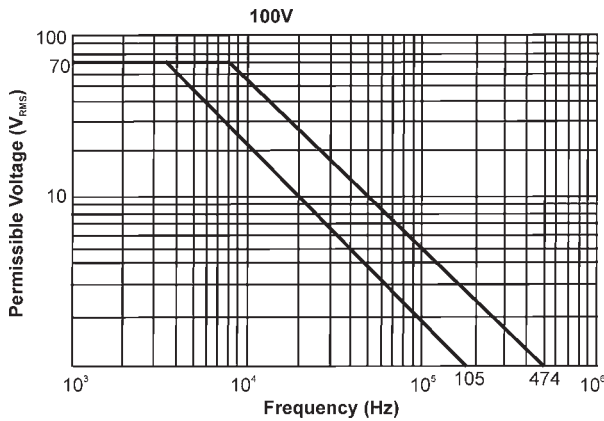
$\Delta c/c$: $\leq 5\%$ of initial value.

Change in Tan δ : ≤ 0.003 , $C_R \leq 1 \mu f$; ≤ 0.002 , $C_R > 1 \mu f$

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

APPROVALS: Tested at ERTL (North) as per IEC 384-2. Approved by CACT for telecom applications.

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



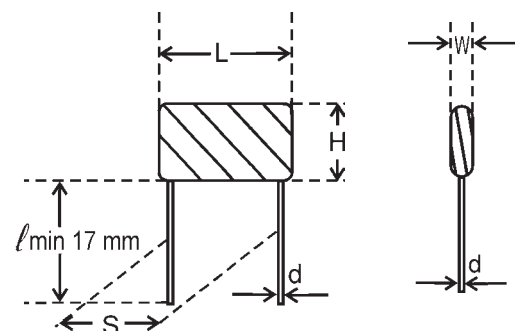
Ordering Code and Packing Units: Metallised Polyester Film Capacitors (Standard Pitch: 10.0-27.5mm)

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	0.1	5.0	11.0	13	0.6	10.0	10.0	28	0.6	02 104 +2A ^{^^}	1500	2000
	0.15	5.0	11.0	13	0.6	10.0	10.0	28	0.65	02 154 +2A ^{^^}	1500	2000
	0.22	7.0	12.0	13	0.6	10.0	10.0	28	0.9	02 224 +2A ^{^^}	1500	2000
	0.33	6.0	12.0	19	0.8	15.0	15.0	20	0.9	02 334 +2A ^{^^}	1000	1000
	0.47	7.0	13.0	19	0.8	15.0	15.0	20	0.9	02 474 +2A ^{^^}	1000	1000
	0.68	7.0	13.0	19	0.8	15.0	15.0	20	1.0	02 684 +2A ^{^^}	1000	1000
	1.0	9.0	16.5	19	0.8	15.0	15.0	20	1.3	02 105 +2A ^{^^}	1000	1000
	1.5	9.5	17.0	19	0.8	15.0	15.0	8	2.0	02 155 +2A ^{^^}	1000	1000
	2.2	12.0	19.0	19	0.8	15.0	15.0	8	2.8	02 225 +2A ^{^^}	900	1000
	3.3	7.5	16.0	27	0.8	22.5	22.5	8	4.0	02 335 +2A ^{^^}	-	400
4.7	8.5	18.0	27	0.8	22.5	-	7	5.2	02 475 +2A ^{^^}	-	400	
250V DC	0.027	5.0	11.0	13	0.6	10.0	10.0	70	0.65	02 273 +2E ^{^^}	1500	2000
	0.033	5.0	11.0	13	0.6	10.0	10.0	70	0.65	02 333 +2E ^{^^}	1500	2000
	0.047	5.0	11.0	13	0.6	10.0	10.0	70	0.7	02 473 +2E ^{^^}	1500	2000
	0.068	5.0	11.0	13	0.6	10.0	10.0	70	0.7	02 683 +2E ^{^^}	1500	2000
	0.082	5.0	12.0	13	0.6	10.0	10.0	70	0.75	02 823 +2E ^{^^}	1500	2000
	0.1	5.0	12.0	13	0.6	10.0	10.0	70	0.75	02 104 +2E ^{^^}	1500	2000
	0.15	6.0	12.0	13	0.6	10.0	10.0	70	0.8	02 154 +2E ^{^^}	1500	2000
	0.22	6.0	12.0	19	0.8	15.0	15.0	28	1.4	02 224 +2E ^{^^}	1000	1000
	0.33	6.0	12.0	19	0.8	15.0	15.0	28	1.4	02 334 +2E ^{^^}	1000	1000
	0.47	7.0	13.0	19	0.8	15.0	15.0	28	2.1	02 474 +2E ^{^^}	1000	1000
	0.68	9.0	14.0	19	0.8	15.0	15.0	28	2.9	02 684 +2E ^{^^}	1000	1000
	1.0	7.0	16.0	27	0.8	22.5	22.5	12	3.6	02 105 +2E ^{^^}	-	400
	1.5	8.5	17.5	27	0.8	22.5	-	12	5.1	02 155 +2E ^{^^}	-	400
	2.2	9.5	19.5	27	0.8	22.5	-	12	6.5	02 225 +2E ^{^^}	-	400
3.3	12.5	22.0	27	0.8	22.5	-	12	7.5	02 335 +2E ^{^^}	-	400	
400V DC	0.01	5.0	12.0	13	0.6	10.0	10.0	110	0.6	02 103 +2G ^{^^}	1500	2000
	0.015	5.0	12.0	13	0.6	10.0	10.0	110	0.6	02 153 +2G ^{^^}	1500	2000
	0.022	6.0	12.0	13	0.6	10.0	10.0	110	0.6	02 223 +2G ^{^^}	1500	2000
	0.033	6.0	12.0	13	0.6	10.0	10.0	110	0.6	02 333 +2G ^{^^}	1500	2000
	0.047	6.0	12.0	13	0.8	10.0	10.0	110	0.62	02 473 +2G ^{^^}	1500	2000
	0.068	6.0	12.0	13	0.8	10.0	10.0	110	0.7	02 683 +2G ^{^^}	1500	2000
	0.1	6.0	11.0	19	0.8	15.0	15.0	44	1.0	02 104 +2G ^{^^}	1000	1000
	0.15	8.0	16.0	19	0.8	15.0	15.0	44	1.3	02 154 +2G ^{^^}	1000	1000
	0.22	8.0	15.0	19	0.8	15.0	15.0	44	1.7	02 224 +2G ^{^^}	1000	1000
	0.33	7.0	15.0	27	0.8	22.5	22.5	20	2.6	02 334 +2G ^{^^}	-	400
	0.47	8.0	16.5	27	0.8	22.5	22.5	20	3.4	02 474 +2G ^{^^}	-	400
	0.68	10.0	17.0	27	0.8	22.5	-	20	3.5	02 684 +2G ^{^^}	-	400
	0.82	7.0	16.0	31	0.8	27.5	-	16	4.0	02 824 +2G ^{^^}	-	200
	1.0	7.0	16.0	31	0.8	27.5	-	16	4.0	02 105 +2G ^{^^}	-	200
1.5	10.0	18.0	31	0.8	27.5	-	16	5.0	02 155 +2G ^{^^}	-	200	
2.2	10.5	20.0	31	0.8	27.5	-	16	6.87	02 225 +2G ^{^^}	-	200	
3.3	14.0	21.5	31	0.8	27.5	-	16	9.5	02 335 +2G ^{^^}	-	200	
630V DC	0.01	5.0	12.0	13	0.6	10.0	10.0	70	0.65	02 103 +2J ^{^^}	1500	2000
	0.015	5.0	12.0	13	0.6	10.0	10.0	70	0.65	02 153 +2J ^{^^}	1500	2000
	0.022	5.0	12.0	13	0.6	10.0	10.0	70	0.7	02 223 +2J ^{^^}	1500	2000
	0.033	6.0	12.0	19	0.8	15.0	15.0	70	1.0	02 333 +2J ^{^^}	1000	1000
	0.047	7.0	13.0	19	0.8	15.0	15.0	70	1.2	02 473 +2J ^{^^}	1000	1000
	0.068	7.0	13.0	19	0.8	15.0	15.0	70	1.4	02 683 +2J ^{^^}	1000	1000
	0.082	8.0	15.0	19	0.8	15.0	15.0	70	1.8	02 823 +2J ^{^^}	1000	1000
	0.1	9.0	16.0	19	0.8	15.0	15.0	70	2.0	02 104 +2J ^{^^}	1000	1000
	0.15	9.0	16.0	19	0.8	15.0	15.0	70	2.5	02 154 +2J ^{^^}	1000	1000
	0.22	8.0	16.0	27	0.8	22.5	22.5	28	3.0	02 224 +2J ^{^^}	-	400
	0.33	10.0	19.0	31	0.8	27.5	-	24	5.0	02 334 +2J ^{^^}	-	200
0.47	12.0	21.0	31	0.8	27.5	-	24	6.5	02 474 +2J ^{^^}	-	200	
1.0	15.0	25.0	31	0.8	27.5	-	24	9.5	02 105 +2J ^{^^}	-	200	

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.



Ordering Code and Packing Units: Metallised Polyester Film Capacitors (Standard Pitch: 10.0-27.5mm)

Rated Voltage	Rated Cap. (µf)	Dimensions (mm)						Dv/Dt V/µs	Wt g	Ordering code	Packing units	
		W ±0.2	H ±0.2	L ±0.2	d ±0.05	S ±0.5	F +0.8/-0.2				Ammo	Bulk
100V DC	0.056	4.0	9.0	13	0.6	10.0	10.0	28	0.4	06 563 +2A ^{**}	-	500
	0.082	4.0	9.0	13	0.6	10.0	10.0	28	0.4	06 823 +2A ^{**}	-	500
	0.1	4.0	9.0	13	0.6	10.0	10.0	28	0.4	06 104 +2A ^{**}	-	500
	0.15	5.0	11.0	13	0.6	10.0	10.0	28	0.4	06 154 +2A ^{**}	-	500
	0.22	4.5	9.5	13	0.6	10.0	10.0	28	0.5	06 224 +2A ^{**}	-	500
	0.33	5.0	11.0	19	0.8	15.0	15.0	20	0.6	06 334 +2A ^{**}	-	500
	0.47	5.5	11.5	19	0.8	15.0	15.0	20	0.7	06 474 +2A ^{**}	-	500
	0.68	6.0	12.0	19	0.8	15.0	15.0	20	1.0	06 684 +2A ^{**}	-	500
	1.0	7.5	13.5	19	0.8	15.0	15.0	20	1.3	06 105 +2A ^{**}	-	500
	1.5	6.0	12.0	19	0.8	15.0	15.0	8	2.0	06 155 +2A ^{**}	-	500
	2.2	6.5	16.5	27	0.8	22.5	22.5	8	2.8	06 225 +2A ^{**}	-	400
	3.3	8.5	18.0	27	0.8	22.5	22.5	8	4.0	06 335 +2A ^{**}	-	400
	4.7	9.5	18.5	32	0.8	27.5	-	7	5.2	06 475 +2A ^{**}	-	200
	6.8	11.5	20.5	32	0.8	27.5	-	7	6.5	06 685 +2A ^{**}	-	200
250V DC	0.027	4.0	9.0	13	0.6	10.0	10.0	70	0.4	06 273 +2E ^{**}	-	500
	0.033	4.0	9.0	13	0.6	10.0	10.0	70	0.4	06 333 +2E ^{**}	-	500
	0.047	4.0	9.0	13	0.6	10.0	10.0	70	0.4	06 473 +2E ^{**}	-	500
	0.068	4.5	9.5	13	0.6	10.0	10.0	70	0.4	06 683 +2E ^{**}	-	500
	0.082	5.0	11.0	13	0.6	10.0	10.0	70	0.5	06 823 +2E ^{**}	-	500
	0.1	5.0	11.0	13	0.6	10.0	10.0	70	0.5	06 104 +2E ^{**}	-	500
	0.15	5.0	11.0	19	0.8	15.0	15.0	28	0.7	06 154 +2E ^{**}	-	500
	0.22	6.0	12.0	19	0.8	15.0	15.0	28	0.9	06 224 +2E ^{**}	-	500
	0.33	7.0	13.0	19	0.8	15.0	15.0	28	1.3	06 334 +2E ^{**}	-	500
	0.47	5.5	14.5	27	0.8	22.5	22.5	12	2.1	06 474 +2E ^{**}	-	400
	0.68	6.5	15.5	27	0.8	22.5	22.5	12	2.9	06 684 +2E ^{**}	-	400
	1.0	7.5	16.5	27	0.8	22.5	22.5	12	3.6	06 105 +2E ^{**}	-	400
	1.5	8.5	17.5	32	0.8	27.5	-	10	5.1	06 155 +2E ^{**}	-	200
	2.2	10.5	19.5	32	0.8	27.5	-	10	6.4	06 224 +2E ^{**}	-	200
400V DC	0.01	4.0	9.0	13	0.6	10.0	10.0	110	0.4	06 103 +2G ^{**}	-	500
	0.015	4.0	9.0	13	0.6	10.0	10.0	110	0.4	06 153 +2G ^{**}	-	500
	0.022	4.0	9.0	13	0.6	10.0	10.0	110	0.4	06 223 +2G ^{**}	-	500
	0.033	4.5	9.5	13	0.6	10.0	10.0	110	0.4	06 333 +2G ^{**}	-	500
	0.047	4.5	10.5	19	0.8	15.0	15.0	44	0.6	06 473 +2G ^{**}	-	500
	0.068	5.0	11.0	13	0.8	15.0	15.0	44	0.7	06 683 +2G ^{**}	-	500
	0.1	5.5	12.5	19	0.8	15.0	15.0	44	0.9	06 104 +2G ^{**}	-	500
	0.15	5.5	12.5	19	0.8	15.0	15.0	44	1.3	06 154 +2G ^{**}	-	500
	0.22	6.0	15.0	27	0.8	22.5	22.5	20	1.9	06 224 +2G ^{**}	-	400
	0.33	6	15.0	27	0.8	22.5	22.5	20	2.6	06 334 +2G ^{**}	-	400
	0.47	7.5	16.5	27	0.8	22.5	22.5	20	3.4	06 474 +2G ^{**}	-	400
	0.56	7.5	16.5	32	0.8	27.5	-	16	3.5	06 564 +2G ^{**}	-	200
	0.82	9.0	18.0	32	0.8	27.5	-	16	4.5	06 824 +2G ^{**}	-	200
	1.0	10.0	19.0	32	0.8	27.5	-	16	5.0	06 105 +2G ^{**}	-	200
630V DC	0.01	5.0	11.0	13	0.6	10.0	10.0	70	0.4	06 103 +2J ^{**}	-	500
	0.015	5.0	11.0	13	0.6	10.0	10.0	70	0.6	06 153 +2J ^{**}	-	500
	0.022	5.0	11.0	13	0.6	10.0	10.0	70	0.7	06 223 +2J ^{**}	-	500
	0.033	6.0	12.0	19	0.8	15.0	15.0	70	1.0	06 333 +2J ^{**}	-	500
	0.047	7.0	13.0	19	0.8	15.0	15.0	70	1.2	06 473 +2J ^{**}	-	500
	0.068	8.0	14.0	19	0.8	15.0	15.0	70	1.4	06 683 +2J ^{**}	-	500
	0.082	5.5	14.5	27	0.8	22.5	22.5	28	1.8	06 823 +2J ^{**}	-	400
	0.1	6.0	15.0	27	0.8	22.5	22.5	28	2.1	06 104 +2J ^{**}	-	400
	0.15	7.5	16.5	27	0.8	22.5	22.5	28	2.9	06 154 +2J ^{**}	-	400
	0.22	9.5	18.5	27	0.8	22.5	22.5	28	3.5	06 224 +2J ^{**}	-	400
	0.33	10.0	19.0	32	0.8	27.5	-	24	5.0	06 334 +2J ^{**}	-	200
	0.47	12.0	21.0	32	0.8	27.5	-	24	6.5	06 474 +2J ^{**}	-	200

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.
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