



METALLISED POLYESTER FILM CAPACITORS (MINIATURE)

(BOX/DIP TYPE - 7.5 MM PITCH)

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

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

CLIMATIC CATEGORY: 55/100/56

APPLICABLE SPECIFICATION: IEC 384-2

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

CAPACITANCE TOLERANCE: ±5%, ±10%, ±20%

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 $3750 M\Omega$ $1250s$
 at 25° C, relative humidity $\leq 70\%$ $> 100V$ DC $7500 M\Omega$ $2500s$

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	$\leq 0.8\%$	$\leq 0.8\%$	1.0%
At 10	$\leq 1.5\%$	$\leq 1.5\%$	
At 100	$\leq 3.0\%$	$\leq 3.0\%$	

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.

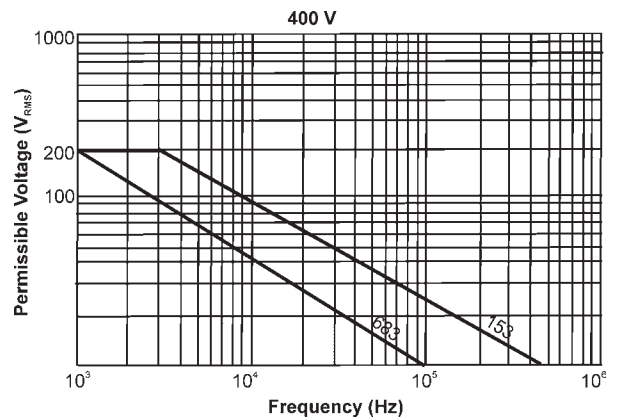
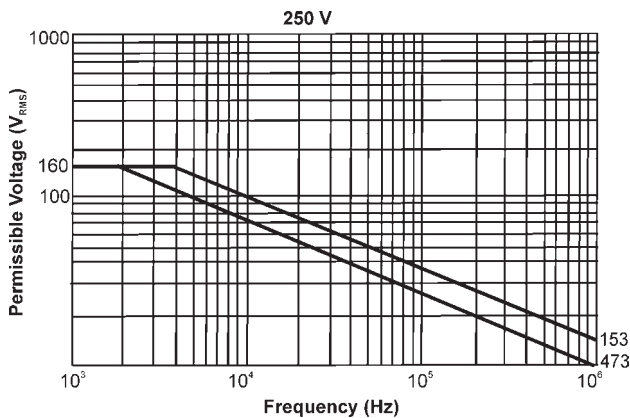
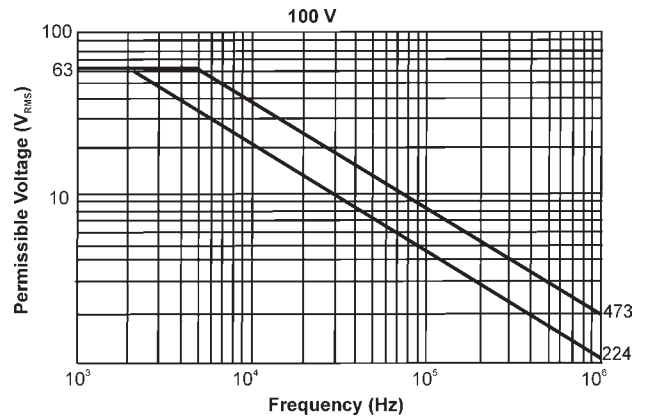
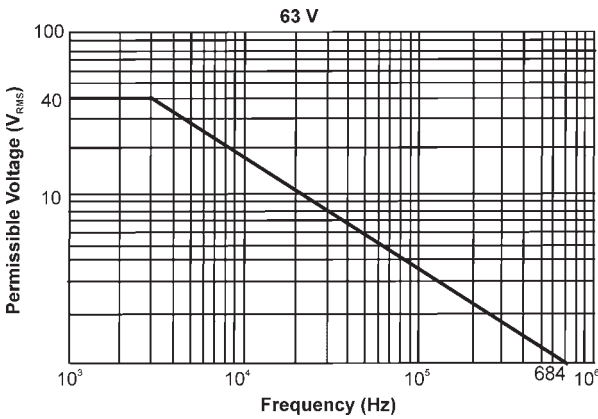
AFTER THE TEST

$\Delta c/c$: $\leq 5\%$ 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.

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



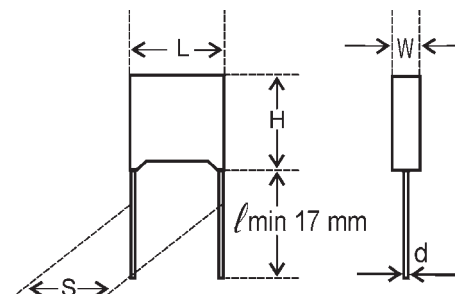
Ordering Code and Packing Units: Metallised Polyester Film Capacitors (Miniature) - (Box/Dip type: 7.5 mm Pitch)

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	Reel	Bulk
63V	0.1	3.5	6.5	10.5	0.6	7.5	7.5	18	0.45	15 104 +1J*^	1500	1500	2000
	0.15	3.5	6.5	10.5	0.6	7.5	7.5	18	0.45	15 154 +1J*^	1500	1500	2000
	0.22	3.5	6.5	10.5	0.6	7.5	7.5	18	0.45	15 224 +1J*^	1500	1500	2000
	0.33	4.0	9.0	10.5	0.6	7.5	7.5	18	0.60	15 334 +1J*^	1500	1000	2000
	0.47	5.0	11.0	10.5	0.6	7.5	7.5	18	0.7	15 474 +1J*^	1000	1000	2000
	0.68	5.0	11.0	10.5	0.6	7.5	7.5	18	0.7	15 684 +1J*^	1000	1000	2000
	1.0	6.0	12.0	10.5	0.6	7.5	7.5	18	0.8	15 105 +1J*^	750	750	2000
100V	0.033	3.5	6.5	10.5	0.6	7.5	7.5	36	0.45	15 333 +2A*^	1500	1500	2000
	0.047	3.5	6.5	10.5	0.6	7.5	7.5	36	0.45	15 473 +2A*^	1500	1500	2000
	0.068	3.5	6.5	10.5	0.6	7.5	7.5	36	0.45	15 683 +2A*^	1500	1500	2000
	0.1	4.0	9.0	10.5	0.6	7.5	7.5	36	0.60	15 104 +2A*^	1500	1000	2000
	0.15	4.0	9.0	10.5	0.6	7.5	7.5	36	0.5	15 154 +2A*^	1500	1000	2000
	0.22	4.0	9.0	10.5	0.6	7.5	7.5	36	0.5	15 224 +2A*^	1500	1000	2000
	0.33	5.0	11.0	10.5	0.6	7.5	7.5	36	0.7	15 334 +2A*^	1000	1000	2000
	0.47	6.0	12.0	10.5	0.6	7.5	7.5	36	0.9	15 474 +2A*^	750	750	2000
250V	0.01	3.5	6.5	10.5	0.6	7.5	7.5	70	0.50	15 103 +2E*^	1500	1500	2000
	0.015	3.5	6.5	10.5	0.6	7.5	7.5	70	0.45	15 153 +2E*^	1500	1500	2000
	0.022	3.5	6.5	10.5	0.6	7.5	7.5	70	0.45	15 223 +2E*^	1500	1500	2000
	0.033	4.0	9.0	10.5	0.6	7.5	7.5	70	0.5	15 333 +2E*^	1500	1000	2000
	0.047	4.0	9.0	10.5	0.6	7.5	7.5	70	0.60	15 473 +2E*^	1500	1000	2000
	0.068	4.0	9.0	10.5	0.6	7.5	7.5	70	0.7	15 683 +2E*^	1500	1000	2000
	0.1	4.0	9.0	10.5	0.6	7.5	7.5	70	0.7	15 104 +2E*^	1500	1000	2000
	0.15	5.0	11.0	10.5	0.6	7.5	7.5	70	0.9	15 154 +2E*^	1000	750	2000
0.22	6.0	12.0	10.5	0.6	7.5	7.5	70	0.9	15 224 +2E*^	750	750	2000	
400V	0.0047	3.5	6.5	10.5	0.6	7.5	7.5	190	0.45	15 472 +2G*^	1500	1500	2000
	0.0068	3.5	6.5	10.5	0.6	7.5	7.5	190	0.60	15 682 +2G*^	1500	1500	2000
	0.01	4.0	9.0	10.5	0.6	7.5	7.5	190	0.60	15 103 +2G*^	1500	1000	2000
	0.015	4.0	9.0	10.5	0.6	7.5	7.5	190	0.50	15 153 +2G*^	1500	1000	2000
	0.022	4.0	9.0	10.5	0.6	7.5	7.5	190	0.60	15 223 +2G*^	1500	1000	2000
	0.033	4.0	9.0	10.5	0.6	7.5	7.5	190	0.80	15 333 +2G*^	1500	1000	2000
	0.047	5.0	11.0	10.5	0.6	7.5	7.5	190	0.90	15 473 +2G*^	1000	750	2000
	0.056	5.0	11.0	10.5	0.6	7.5	7.5	190	0.90	15 563 +2G*^	1000	750	2000
0.068	6.0	12.0	10.5	0.6	7.5	7.5	190	0.90	15 683 +2G*^	750	750	2000	
630V	0.01	5.0	11.0	10.5	0.6	7.5	7.5	450	0.60	15 103 +2J*^	1000	1000	2000
	0.015	6.0	12.0	10.5	0.6	7.5	7.5	450	0.60	15 153 +2J*^	750	750	2000
	0.022	6.0	12.0	10.5	0.6	7.5	7.5	450	0.70	15 223 +2J*^	750	750	2000

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.
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.



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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	Reel	Bulk
63V	0.1	4.0	9.0	10.5	0.6	7.5	7.5	18	0.45	13 104 +1J*^	1500	1500	2000
	0.15	4.0	9.0	10.5	0.6	7.5	7.5	18	0.45	13 154 +1J*^	1500	1500	2000
	0.22	4.0	9.0	10.5	0.6	7.5	7.5	18	0.45	13 224 +1J*^	1500	1500	2000
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	0.47	5.5	11.0	10.5	0.6	7.5	7.5	18	0.7	13 474 +1J*^	1000	1000	2000
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	1.0	6.5	12.0	10.5	0.6	7.5	7.5	18	0.8	13 105 +1J*^	750	750	2000
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	0.15	4.5	9.0	10.5	0.6	7.5	7.5	36	0.50	13 154 +2A*^	1500	1000	2000
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0.47	6.0	12.0	10.5	0.6	7.5	7.5	36	0.9	13 474 +2A*^	750	750	2000	
250V	0.022	4.0	9.0	10.5	0.6	7.5	7.5	70	0.45	13 223 +2E*^	1500	1500	2000
	0.033	4.5	9.0	10.5	0.6	7.5	7.5	70	0.5	13 333 +2E*^	1500	1000	2000
	0.047	4.5	9.0	10.5	0.6	7.5	7.5	70	0.5	13 473 +2E*^	1500	1000	2000
	0.068	4.5	9.0	10.5	0.6	7.5	7.5	70	0.7	13 683 +2E*^	1500	1000	2000
	0.1	4.5	9.0	10.5	0.6	7.5	7.5	70	0.7	13 104 +2E*^	1500	1000	2000
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630V	0.0015	4.0	9.0	10.5	0.6	7.5	7.5	450	0.50	13 152 +2J*^	1500	1000	2000
	0.0022	4.0	9.0	10.5	0.6	7.5	7.5	450	0.50	13 222 +2J*^	1500	1000	2000
	0.0033	4.0	9.0	10.5	0.6	7.5	7.5	450	0.55	13 332 +2J*^	1500	1000	2000
	0.0047	4.5	9.0	10.5	0.6	7.5	7.5	450	0.60	13 472 +2J*^	1500	1000	2000
	0.0068	4.5	9.0	10.5	0.6	7.5	7.5	450	0.65	13 682 +2J*^	1500	1000	2000
	0.01	5.5	11.0	10.5	0.6	7.5	7.5	450	0.7	13 103 +2J*^	1000	1000	2000
	0.015	6.5	12.0	10.5	0.6	7.5	7.5	450	0.9	13 153 +2J*^	750	750	2000
0.022	6.5	12.0	10.5	0.6	7.5	7.5	450	0.9	13 223 +2J*^	750	750	2000	

Dip type

NOTE

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