



METALLISED POLYESTER FILM CAPACITORS (SUBMINIATURE)

(BOX/DIP TYPE - 5.0 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 MΩ 1250s
at 25° C, relative humidity $\leq 70\%$ $> 100V$ DC 7500 MΩ 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.

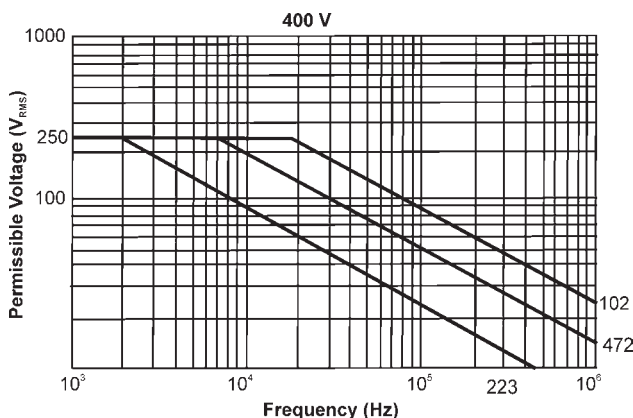
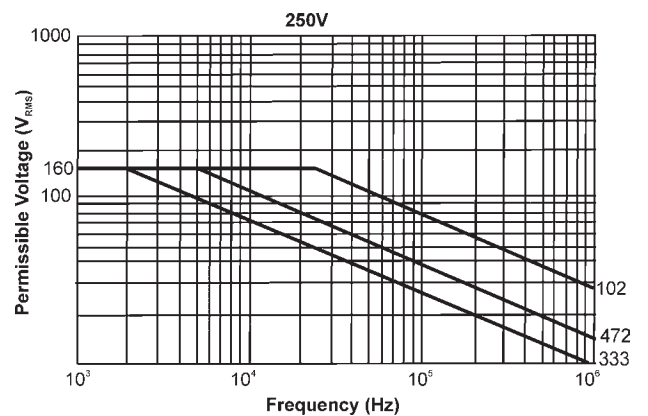
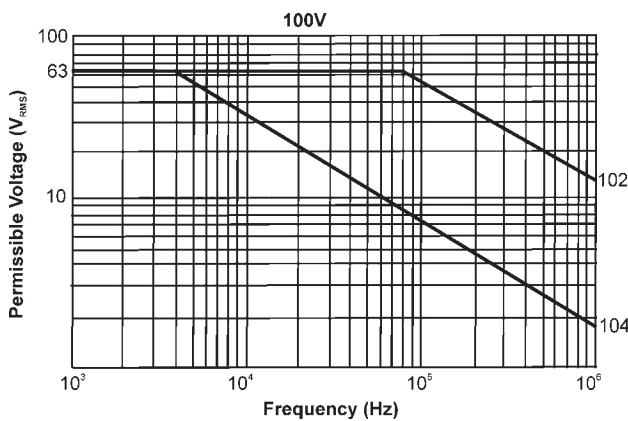
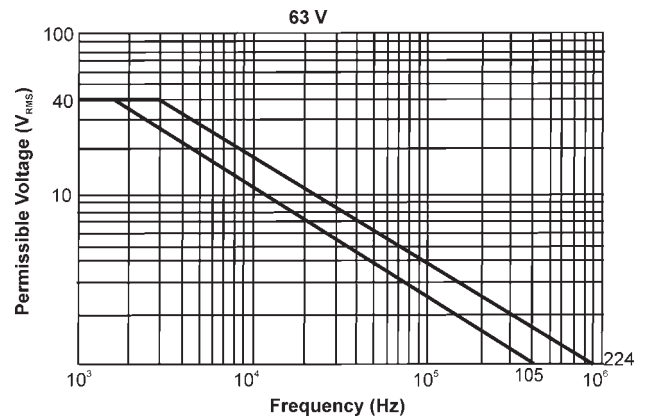
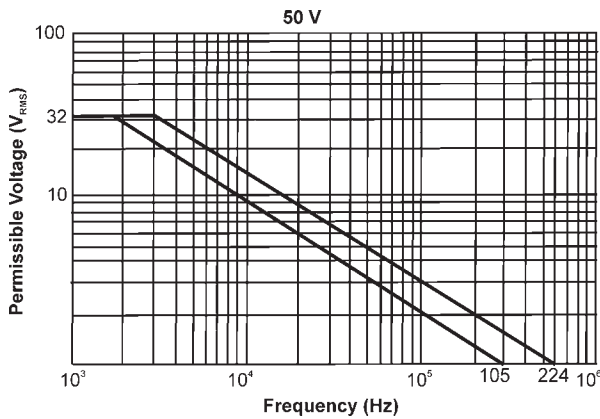
AFTER THE TEST

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



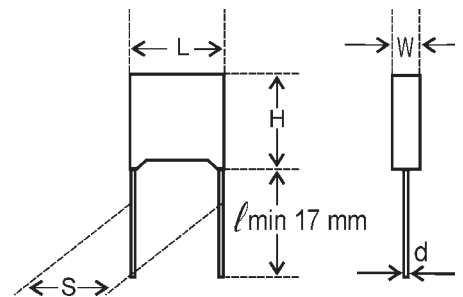
Ordering Code and Packing Units: Metallised Polyester Film Capacitors (Subminiature) - (Box/Dip type - 5.0 mm Pitch)

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	Bulk
50V	0.1	2.5	6.5	7.2	0.6	5	5	50	0.25	16 104 +1H [^]	3000	4000
	0.15	3.5	7.5	7.2	0.6	5	5	50	0.35	16 154 +1H [^]	2000	4000
	0.22	3.5	7.5	7.2	0.6	5	5	50	0.35	16 224 +1H [^]	2000	4000
	0.33	3.5	7.5	7.2	0.6	5	5	50	0.35	16 334 +1H [^]	2000	4000
	0.47	4.5	9.5	7.2	0.6	5	5	50	0.45	16 474 +1H [^]	1500	2000
	0.68	5.0	10.0	7.2	0.6	5	5	50	0.60	16 684 +1H [^]	1500	2000
	1.0	6.0	11.0	7.2	0.6	5	5	50	0.60	16 105 +1H [^]	1000	2000
63V	0.047	2.5	6.5	7.2	0.6	5	5	60	0.25	16 473 +1J [^]	3000	4000
	0.068	2.5	6.5	7.2	0.6	5	5	60	0.27	16 683 +1J [^]	3000	4000
	0.1	2.5	6.5	7.2	0.6	5	5	60	0.25	16 104 +1J [^]	3000	4000
	0.15	3.5	7.5	7.2	0.6	5	5	60	0.35	16 154 +1J [^]	2000	4000
	0.22	3.5	7.5	7.2	0.6	5	5	60	0.37	16 224 +1J [^]	2000	4000
	0.33	4.5	9.5	7.2	0.6	5	5	60	0.52	16 334 +1J [^]	1500	2000
	0.47	5.0	10.0	7.2	0.6	5	5	60	0.60	16 474 +1J [^]	1500	2000
100V	0.001	2.5	6.5	7.2	0.6	5	5	110	0.25	16 102 +2A [^]	3000	4000
	0.0015	2.5	6.5	7.2	0.6	5	5	110	0.25	16 152 +2A [^]	3000	4000
	0.0022	2.5	6.5	7.2	0.6	5	5	110	0.25	16 222 +2A [^]	3000	4000
	0.0033	2.5	6.5	7.2	0.6	5	5	110	0.25	16 332 +2A [^]	3000	4000
	0.0047	3.0	6.5	7.2	0.6	5	5	110	0.30	16 472 +2A [^]	2500	4000
	0.0068	3.0	6.5	7.2	0.6	5	5	110	0.30	16 682 +2A [^]	2500	4000
	0.01	3.0	6.5	7.2	0.6	5	5	110	0.28	16 103 +2A [^]	2500	4000
	0.015	3.0	6.5	7.2	0.6	5	5	110	0.25	16 153 +2A [^]	2500	4000
	0.022	3.0	6.5	7.2	0.6	5	5	110	0.25	16 223 +2A [^]	2500	4000
	0.033	3.0	6.5	7.2	0.6	5	5	110	0.35	16 333 +2A [^]	2500	4000
	0.047	3.0	6.5	7.2	0.6	5	5	110	0.35	16 473 +2A [^]	2500	4000
	0.068	3.5	7.5	7.2	0.6	5	5	110	0.35	16 683 +2A [^]	2000	4000
	0.1	3.5	7.5	7.2	0.6	5	5	110	0.35	16 104 +2A [^]	2000	4000
	0.15	4.5	9.5	7.2	0.6	5	5	110	0.45	16 154 +2A [^]	1500	4000
250V	0.001	2.5	6.5	7.2	0.6	5	5	320	0.35	16 102 +2E [^]	3000	4000
	0.0015	2.5	6.5	7.2	0.6	5	5	320	0.35	16 152 +2E [^]	3000	4000
	0.0022	2.5	6.5	7.2	0.6	5	5	320	0.35	16 222 +2E [^]	3000	4000
	0.0033	2.5	6.5	7.2	0.6	5	5	320	0.35	16 332 +2E [^]	3000	4000
	0.0047	2.5	6.5	7.2	0.6	5	5	320	0.35	16 472 +2E [^]	3000	4000
	0.0068	3.0	6.5	7.2	0.6	5	5	320	0.35	16 682 +2E [^]	2500	4000
	0.01	3.0	6.5	7.2	0.6	5	5	320	0.35	16 103 +2E [^]	2500	4000
	0.015	3.0	6.5	7.2	0.6	5	5	320	0.35	16 153 +2E [^]	2500	4000
	0.022	3.0	6.5	7.2	0.6	5	5	320	0.35	16 223 +2E [^]	2500	4000
	0.033	3.5	7.5	7.2	0.6	5	5	320	0.35	16 333 +2E [^]	2000	4000
	0.047	4.5	9.5	7.2	0.6	5	5	320	0.45	16 473 +2E [^]	1500	2000
	0.068	4.5	9.5	7.2	0.6	5	5	320	0.45	16 683 +2E [^]	1500	2000
	0.1	6.0	11.0	7.2	0.6	5	5	320	0.60	16 104 +2E [^]	1000	2000
	400V	0.001	2.5	6.5	7.2	0.6	5	5	600	0.35	16 102 +2G [^]	3000
0.0015		2.5	6.5	7.2	0.6	5	5	600	0.35	16 152 +2G [^]	3000	4000
0.0022		2.5	6.5	7.2	0.6	5	5	600	0.35	16 222 +2G [^]	3000	4000
0.0033		2.5	6.5	7.2	0.6	5	5	600	0.35	16 332 +2G [^]	3000	4000
0.0047		3.0	6.5	7.2	0.6	5	5	600	0.35	16 472 +2G [^]	2500	4000
0.0068		3.0	6.5	7.2	0.6	5	5	600	0.35	16 682 +2G [^]	2500	4000
0.01		3.5	7.5	7.2	0.6	5	5	600	0.35	16 103 +2G [^]	2000	4000
0.015		4.5	9.5	7.2	0.6	5	5	600	0.50	16 153 +2G [^]	1500	2000
0.022		4.5	9.5	7.2	0.6	5	5	600	0.50	16 223 +2G [^]	1500	2000
0.033		5.0	10.0	7.2	0.6	5	5	600	0.60	16 333 +2G [^]	1500	2000
0.047		6.0	11.0	7.2	0.6	5	5	600	0.60	16 473 +2G [^]	1000	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	Bulk
50V	0.1	3.0	7.0	7.5	0.6	5	5	50	0.25	14 104 +1H ^{*^}	3000	4000
	0.15	4.0	8.5	7.5	0.6	5	5	50	0.35	14 154 +1H ^{*^}	2000	4000
	0.22	4.0	8.5	7.5	0.6	5	5	50	0.35	14 224 +1H ^{*^}	2000	4000
	0.33	4.0	8.5	7.5	0.6	5	5	50	0.35	14 334 +1H ^{*^}	2000	4000
	0.47	5.0	9.5	7.5	0.6	5	5	50	0.45	14 474 +1H ^{*^}	1500	2000
	0.68	5.5	11.0	7.5	0.6	5	5	50	0.6	14 684 +1H ^{*^}	1500	2000
63V	1.0	6.5	12.0	7.5	0.6	5	5	50	0.6	14 105 +1H ^{*^}	1000	2000
	0.01	3.5	7.0	7.5	0.6	5	5	60	0.25	14 103 +1J ^{*^}	3000	4000
	0.015	3.5	7.0	7.5	0.6	5	5	60	0.25	14 153 +1J ^{*^}	3000	4000
	0.022	3.5	7.0	7.5	0.6	5	5	60	0.25	14 223 +1J ^{*^}	3000	4000
	0.033	3.5	7.0	7.5	0.6	5	5	60	0.25	14 333 +1J ^{*^}	3000	4000
	0.047	3.0	7.0	7.5	0.6	5	5	60	0.25	14 473 +1J ^{*^}	3000	4000
	0.068	3.0	7.0	7.5	0.6	5	5	60	0.25	14 683 +1J ^{*^}	3000	4000
	0.1	3.0	7.0	7.5	0.6	5	5	60	0.25	14 104 +1J ^{*^}	3000	4000
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	0.33	5.0	10.0	7.5	0.6	5	5	60	0.45	14 334 +1J ^{*^}	1500	2000
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100V	0.68	6.5	12.0	7.5	0.6	5	5	60	0.6	14 684 +1J ^{*^}	1000	2000
	0.0015	3.5	7.0	7.5	0.6	5	5	110	0.25	14 152 +2A ^{*^}	3000	4000
	0.0022	3.5	7.0	7.5	0.6	5	5	110	0.25	14 222 +2A ^{*^}	3000	4000
	0.0033	3.5	7.0	7.5	0.6	5	5	110	0.25	14 332 +2A ^{*^}	3000	4000
	0.0047	3.5	7.0	7.5	0.6	5	5	110	0.25	14 472 +2A ^{*^}	2500	4000
	0.0068	3.5	7.0	7.5	0.6	5	5	110	0.25	14 682 +2A ^{*^}	2500	4000
	0.01	3.5	7.0	7.5	0.6	5	5	110	0.25	14 103 +2A ^{*^}	2500	4000
	0.015	3.5	7.0	7.5	0.6	5	5	110	0.25	14 153 +2A ^{*^}	2500	4000
	0.022	3.5	7.0	7.5	0.6	5	5	110	0.25	14 223 +2A ^{*^}	2500	4000
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	0.1	4.0	8.5	7.5	0.6	5	5	110	0.35	14 104 +2A ^{*^}	2000	4000
	0.15	5.0	10.0	7.5	0.6	5	5	110	0.45	14 154 +2A ^{*^}	2000	4000
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	0.022	3.5	7.0	7.5	0.6	5	5	320	0.35	14 223 +2E ^{*^}	2500	4000
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400V	0.0015	3.5	7.0	7.5	0.6	5	5	600	0.35	14 152 +2G ^{*^}	3000	4000
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0.015	5.0	10.0	7.5	0.6	5	5	600	0.45	14 153 +2G ^{*^}	1500	2000	
0.022	5.0	10.0	7.5	0.6	5	5	600	0.45	14 223 +2G ^{*^}	1500	2000	
0.033	5.5	11.0	7.5	0.6	5	5	600	0.6	14 333 +2G ^{*^}	1500	2000	

Dip type

NOTE

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