

METALLISED POLYESTER FILM CAPACITORS

Switch type

MAIN APPLICATION: Mainly used in switch type fan regulators

CONSTRUCTION (DIP TYPE): Low inductive cell of metallised polyester film coated with flame retardant grade epoxy powder

CLIMATIC CATEGORY: 40/85/21

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

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

VOLTAGE PROOF: $1.6 \times U_r$ for 2 seconds between the terminals.

TAN δ (DISSIPATION FACTOR): 0.8% (max) at 1 kHz

INSULATION RESISTANCE

Minimum insulation resistance R_{is} measured at 100 V DC for 1 minute

Or, time constant $T = C_r \times R_{is} > 2500$ s at 25° C, relative humidity $\leq 70\%$

LIFE TEST CONDITIONS

a) Endurance Test: Loaded at 1.1 times of rated voltage at 70° C for 500 hours.

After the test:

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

Change in Tan δ : ≤ 0.004 of initial value

Insulation resistance: $\geq 50\%$ of the value specified in data sheet

b) Switching test: $> 20,000$ cycles of 4 step / 5 step switch type fan regulator

Input supply: 240 V AC, Load: Fan Motor

After the test:

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

Change in Tan δ : ≤ 0.004 of initial value

Insulation resistance: $\geq 50\%$ of the value specified in data sheet

c) Lot to lot testing: Loaded at 450 V AC at ambient temperature for 2 hours

After the test:

$\Delta c/c$: $\leq 10\%$ of initial value

Change in Tan δ : ≤ 0.004 of initial value

Ordering codes and packaging units

Rated Voltage	Rated cap. (μ fd)	Maximum Dimensions (mm)					Ordering code	Packing units Bulk
		W ± 0.5	H ± 0.5	L ± 0.5	d ± 0.5	S ± 0.5		
250 V DC	1.0	6.2	14.0	27.0	0.8	22.5	02 105 + 2E1B	400
	1.8	8.2	17.3	27.0	0.8	22.5	02 185 + 2E1B	400
	2.2	8.5	19.0	27.0	0.8	22.5	02 225 + 2E1B	400
250 V AC	3.3	11.4	20.4	27.0	0.8	22.5	02 335 + 2E1B	400
	1.0	6.1	13.7	31.0	0.8	27.5	46 105 + SW1A	400
	1.2	6.5	15.0	31.0	0.8	27.5	46 125 + SW1A	250
	1.5	7.0	16.0	31.0	0.8	27.5	46 155 + SW1A	250
	2.2	6.8	20.2	31.0	0.8	27.5	46 225 + SW1A	250
	2.5	8.1	22.0	31.0	0.8	27.5	46 255 + SW1A	250
	2.7	8.2	22.1	31.0	0.8	27.5	46 275 + SW1A	250
	3.3	9.2	22.6	31.0	0.8	27.5	46 335 + SW1A	250
	3.5	9.4	23.1	31.0	0.8	27.5	46 355 + SW1A	250
	3.7	10.0	23.5	31.0	0.8	27.5	46 375 + SW1A	250
250 V AC	3.9	10.1	23.8	31.0	0.8	27.5	46 395 + SW1A	250
	4.3	11.0	24.5	31.0	0.8	27.5	46 435 + SW1A	250
	2.2	9.0	18.0	31.0	0.8	27.5	46 225 + SW1B	250
	2.5	10.0	18.0	31.0	0.8	27.5	46 255 + SW1B	250
	2.7	10.5	19.0	31.0	0.8	27.5	46 275 + SW1B	250
	3.3	11.0	20.0	31.0	0.8	27.5	46 335 + SW1B	250
	3.5	11.0	21.0	31.0	0.8	27.5	46 355 + SW1B	250
	3.7	13.0	20.0	31.0	0.8	27.5	46 375 + SW1B	250
	3.9	13.0	20.0	31.0	0.8	27.5	46 395 + SW1B	250
	4.3	13.0	22.0	31.0	0.8	27.5	46 435 + SW1B	250