

METALLISED SAFETY POLYESTER FILM CAPACITORS

Ultima safety type

MAIN APPLICATION: Mainly used in switch/socket type fan regulators where no fire/explosion is allowed

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: $1.6 \cdot U_r$ 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:

$\Delta c/c$: $\leq 10\%$ 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 540 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	1.5	8.5	14.5	31	0.8	27.5	86 155 + 02 *^	250
V AC	1.6	9.0	15.0	31	0.8	27.5	86 165 + 02 *^	250
	2.0	7.5	21.0	31	0.8	27.5	86 205 + 02 *^	250
	2.2	8.5	19.0	31	0.8	27.5	86 225 + 02 *^	250
	2.5	11.0	17.0	31	0.8	27.5	86 255 + 02 *^	250
	2.6	11.0	17.0	31	0.8	27.5	86 265 + 02 *^	250
	2.7	10.0	19.0	31	0.8	27.5	86 275 + 02 *^	250
	3.2	11.0	19.0	31	0.8	27.5	86 325 + 02 *^	250
	3.3	11.0	20.0	31	0.8	27.5	86 335 + 02 *^	250
	4.0	13.0	21.5	31	0.8	27.5	86 405 + 02 *^	250
	4.3	12.0	22.0	31	0.8	27.5	86 435 + 02 *^	250

