

OPTIMA 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 mixed dielectric with flame retardant grade epoxy resin

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): 0.5% (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 $25^\circ C$, relative humidity $\leq 70\%$

LIFE TEST CONDITIONS

a) Endurance Test: Loaded at 1.1 times of rated voltage at $70^\circ C$ 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. (μfd)	Maximum Dimensions (mm)					Ordering code	Packing units Bulk
		W ± 0.5	H ± 0.5	L ± 0.5	d ± 0.5	S ± 0.5		
250	1.0	8	17.0	31	0.8	27.5	69 105 + 02 *^	250
V AC	2.2	11	22.5	31	0.8	27.5	69 225 + 02 *^	250
	3.3	12	21.0	31	0.8	27.5	69 335 + 02 *^	250
	3.7	13	21.0	31	0.8	27.5	69 375 + 02 *^	250

