



METALLISED POLYPROPELENE/POLYESTER FILM CAPACITORS (SOCKET TYPE - MPET/MPP)

MAIN APPLICATION: Mainly used in socket type fan regulators.

CONSTRUCTION (DIP TYPE): Low inductive cell of metallised polypropylene/polyester film coated with flame retardant grade epoxy resin.

CLIMATIC CATEGORY: 40/85/21

CAPACITANCE VALUE, RATED VOLTAGE: Refer dimension chart.

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

VOLTAGE PROOF

Between terminals: 1.6 times of rated voltage for 2 seconds.

INSULATION RESISTANCE

Minimum Insulation Resistance R_{is} measured at 100V DC for 1 minute.
Or, time constant $T = C_R \times R_{is} > 2500s$
at 25° C, relative humidity $\leq 70\%$

TAN δ

0.8% (maximum) at 1 kHz (MPET)

0.1% (maximum) at 1 kHz (MPP)

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 : ≤ 0.002 of initial value (MPP).

Change in Tan δ : ≤ 0.004 of initial value (MPET).

Insulation resistance: $\geq 50\%$ of the specified value.

B) Switching test: >20000 cycles of 4 step/5 step switch type fan regulator

Input Supply: 240V AC

Load: Fan Motor

AFTER THE TEST

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

Change in Tan δ : ≤ 0.002 of initial value (MPP).

Change in Tan δ : ≤ 0.004 of initial value (MPET).

Insulation resistance: $\geq 50\%$ of the specified value.

C) Lot to lot testing: Loaded at 540V AC at ambient temperature for 2 hours.

AFTER THE TEST

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

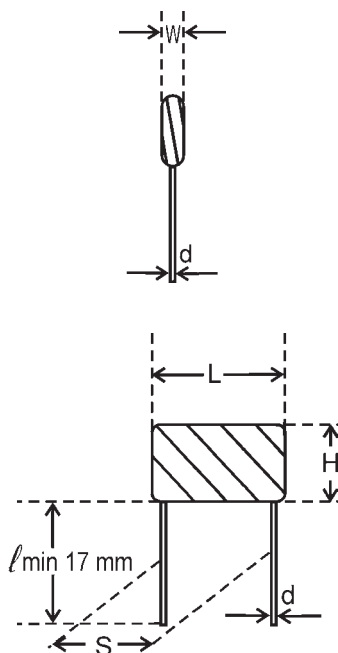
Change in Tan δ : ≤ 0.002 of initial value (MPP).

Change in Tan δ : ≤ 0.004 of initial value (MPET).

Insulation resistance: $\geq 50\%$ of the specified value.

Ordering Code and Packing Units: Metallised Polypropelene/Polyester Film Capacitors (Step Type MPET/MPP)

Rated Voltage	Rated Cap. (μf)	Maximum Dimensions (mm)					Wt g	Ordering code	Packing units
		W	H	L	d	F			
					± 0.5	± 1.0			Bulk
250V AC	1.0	6.2	16.0	31.0	0.8	27.5	1.4	02 105 +02*^	200
MPET Series	1.2	8.0	18.0	31.0	0.8	27.5	1.7	02 125 +02*^	200
	1.5	10.0	18.0	31.0	0.8	27.5	2.1	02 155 +02*^	200
	2.2	10.3	19.6	31.0	0.8	27.5	3.1	02 225 +02*^	200
	2.4	11.3	20.8	31.0	0.8	27.5	3.4	02 245 +02*^	200
	2.7	11.8	21.5	31.0	0.8	27.5	3.8	02 275 +02*^	200
	3.3	13.7	21.2	31.0	0.8	27.5	4.7	02 335 +02*^	200
	3.5	13.8	22.7	31.0	0.8	27.5	5.0	02 355 +02*^	200
250V AC	1.0	8.0	17.0	31.0	0.8	27.5	1.5	04 105 + 02 **	200
MPP Series	1.5	9.0	18.0	31.0	0.8	27.5	2.3	04 155 + 02 **	200
	1.6	10.0	19.0	31.0	0.8	27.5	2.4	04 165 + 02 **	200
	2.2	12.0	20.0	31.0	0.8	27.5	3.3	04 225 + 02 **	200
	2.5	13.0	21.0	31.0	0.8	27.5	3.8	04 255 + 02 **	200
	2.7	14.0	22.0	31.0	0.8	27.5	4.1	04 275 + 02 **	200
	3.2	15.0	23.0	31.0	0.8	27.5	4.8	04 325 + 02 **	200
	3.3	15.0	23.0	31.0	0.8	27.5	5.0	04 335 + 02 **	200



NOTE

- Replace the + by the code letter for the required tolerance.
F: $\pm 1\%$, G: $\pm 2\%$, H: $\pm 2.5\%$, J: $\pm 5\%$, K: $\pm 10\%$, M: $\pm 20\%$
- 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.