



## METALLISED POLYESTER FILM CAPACITORS (STANDARD PITCH: 22.5 MM AND 27.5MM SWITCH TYPE)

**MAIN APPLICATION:** Mainly used in step type fan regulators.

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

**CLIMATIC CATEGORY:** 40/85/21

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

**CAPACITANCE TOLERANCE:** ±5%, ±10%

**VOLTAGE PROOF**

Between terminals: 640V DC 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 ≤ 70%

**TAN δ**

0.8% (maximum) at 1 kHz.

**LIFE TEST CONDITIONS**

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

**AFTER THE TEST**

$\Delta c/c$ : ≤ 8% of initial value.  
Change in Tan δ: ≤ 0.004 of initial value.  
Insulation resistance: ≥ 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**

$\Delta c/c$ : ≤ 5% of initial value.  
Change in Tan δ: ≤ 0.004 of initial value.  
Insulation resistance: ≥ 50% of the specified value.

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

**AFTER THE TEST**

$\Delta c/c$ : ≤ 10% of initial value.  
Change in Tan δ: ≤ 0.004 of initial value.  
Insulation resistance: ≥ 50% of the specified value.

**Ordering Code and Packing Units: Metallised Polyester Film Capacitors (Standard Pitch: 22.5mm and 27.5mm Switch Type)**

Rated Voltage	Rated Cap. (µf)	Maximum Dimensions(mm)					Wt g	Ordering code	Packing units
		W	H	L	d ±0.5	F ±1.0			
a. 250V DC	1.0	6.2	14.0	27.0	0.8	22.5	1.5	02 105 +2E1B	400
	1.8	8.2	17.3	27.0	0.8	22.5	2.7	02 185 +2E1B	400
	2.2	8.5	19.0	27.0	0.8	22.5	3.3	02 225 +2E1B	400
	3.3	11.4	20.4	27.0	0.8	22.5	4.9	02 335 +2E1B	400
b. 250V AC	1.0	6.1	13.7	31.0	0.8	27.5	1.4	46 105 +SW1A	400
	1.2	6.5	15.0	31.0	0.8	27.5	1.7	46 125 +SW1A	200
	1.5	7.0	16.0	31.0	0.8	27.5	2.1	46 155 +SW1A	200
	2.2	6.8	20.2	31.0	0.8	27.5	3.1	46 225 +SW1A	200
	2.5	8.1	22.0	31.0	0.8	27.5	3.6	46 255 +SW1A	200
	2.7	8.2	22.1	31.0	0.8	27.5	3.8	46 275 +SW1A	200
	3.3	9.2	22.6	31.0	0.8	27.5	4.7	46 335 +SW1A	200
	3.5	9.4	23.1	31.0	0.8	27.5	4.9	46 355 +SW1A	200
	3.7	10.0	23.5	31.0	0.8	27.5	5.3	46 375 +SW1A	200
	3.9	10.1	23.8	31.0	0.8	27.5	7.7	46 395 +SW1A	200
	4.3	11.0	24.5	31.0	0.8	27.5	8.3	46 435 +SW1A	200
	c. 250V DC	2.2	9.0	18.0	31.0	0.8	27.5	3.1	46 225 +SW1B
2.5		10.0	18.0	31.0	0.8	27.5	3.6	46 255 +SW1B	200
2.7		10.5	19.0	31.0	0.8	27.5	3.8	46 275 +SW1B	200
3.3		11.0	20.0	31.0	0.8	27.5	4.7	46 335 +SW1B	200
3.5		11.0	21.0	31.0	0.8	27.5	5.0	46 355 +SW1B	200
3.7		13.0	20.0	31.0	0.8	27.5	5.3	46 375 +SW1B	200
3.9		13.0	20.0	31.0	0.8	27.5	5.7	46 395 +SW1B	200
4.3	13.0	22.0	31.0	0.8	27.5	6.1	46 435 +SW1B	200	

**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.

