



# KRISHNONICS FILM CAPACITOR

## APPLICATION: FAN REGULATOR

### METALIZED POLYPROPYLENE FILM CAPACITORS (Powder Coated Type)

#### MAIN APPLICATION

Blocking, bypassing, filtering, timing, coupling and decoupling, interference suppression in low voltage applications, low pulse operations

#### CONSTRUCTION (RESIN COATED TYPE)

Low inductive cell of Metallized Polypropylene film coated with epoxy resin, with tinned copper wire as leads.

#### BATCH LIFE TEST

5 capacitors from each batch subjected to 1000 on-off operations of 1 sec each at 250 VAC. After test, there should be less than 2% drop in Capacitance Value and not more than 0.2% increase in Loss Angle (Tan $\delta$ ).

#### CLIMATIC CATEGORY

40/85/21

#### APPLICABLE SPECIFICATION

IEC 384-16, IEC 68

#### CAPACITANCE VALUE, RATED VOLTAGE (DC)

Refer Dimension Chart

#### VOLTAGE PROOF

Between terminals: 1.75 times of rated voltage for 5 seconds.

#### TAN $\delta$ (DISSIPATION FACTOR) AT 20 $^{\circ}$ C

Frequency	C <sub>R</sub> >1
KHz	mfd
At 1	0.1%

#### LIFE TEST CONDITIONS

(Loading at elevated temperature)  
Loaded at 1.25 times rated voltage at 85 $^{\circ}$ C for 1000 hours

After the test

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

Tan  $\delta \leq$  0.003 C<sub>R</sub>  $\leq$  1  $\mu$ F;  $\leq$  0.002, C<sub>R</sub> > 1  $\mu$ F

#### INSULATION RESISTANCE (Terminal to Body): 1 min w/o flashover at 700 VAC

#### CAPACITANCE TOLERANCE

$\pm$ 5%,  $\pm$  10%

#### INSULATION RESISTANCE

Minimum Insulation Resistance R

Minimum Insulation Resistance R<sub>IS</sub> (or)

time constant T = C<sub>R</sub> X R<sub>IS</sub> at 25 $^{\circ}$  C

relative humidity  $\leq$  70%

V<sub>R</sub>

> 100 V DC

C > 0.33  $\mu$  F

10,000s



Dimensions for Powder Coated Capacitors

Rated Voltage	Rated Cap (μfd)	Max.			
		Th mm	H mm	W Mm	D mm
<b>27.5 mm Pitch (±1.0)</b>					
250 VAC	1.0	8.0	16.0	31.5	0.8
	1.5	9.0	17.0	31.5	0.8
	2.2	12.5	21.0	31.5	0.8
	2.5	9.0	21.0	31.5	0.8
	2.7	11.5	20.0	31.5	0.8
	3.0	12.5	22.0	31.5	0.8
	3.3	14.0	24.0	31.5	0.8
	3.5	14.5	22.5	31.5	0.8
	4.2	15.5	24.5	31.5	0.8
	4.7	16.5	25.5	31.5	0.8



**AQL AND INSPECTION LEVEL**

1. Inspection level and AQLs are selected from ISO-2859 / IS 2500 or IEC – 410. Sampling plan is single sampling for normal inspection.
2. Symbols used:     IL     =     Inspection level (ISO-2859/IS-2500/IEC – 410)  
                          AQL  =     acceptable quality level

NO	ITEM		PERFORMANCE REQUIREMENTS	TEST METHOD	I.L.	A.Q.C
1	VISUAL INSPECTION Marking	Rated capacitance Rated voltage Tolerance Trade mark	Marking should be legible	Visual inspection	General inspection level II	1.0%
	Mechanical Failure	Lead wire broken Insufficient coating	There shall be no mechanical failure	-do-		
2	DIMENSION	Should confirm to the specification chart	As specified in the data sheet	Gauging	Special inspection level S-1	2.5%
3	ELECTRICAL PROPETIES Voltage Proof	Between termination	No break down or flash over of applicant	Test voltage and duration of level 1	General Inspection	0.1%
	Capacitance	As per relevant specification Within specified tolerance	Measuring frequency 1 kHz			
	Tangent of loss angle	As per relevant specification	Measuring frequency 1 kHz			
	Insulation Resistance	As per relevant specification	As per method in the specification			