



KRISHNONICS FILM CAPACITOR

APPLICATION: FAN REGULATOR

METALIZED POLYPROPYLENE FILM CAPACITORS WITH SAFETY FEATURES (Powder Coated)

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 Segmented Metalized 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 δ).

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 δ (DISSIPATION FACTOR) AT 20 $^{\circ}$ C

Frequency	C _R >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_R \leq 1 μ F; \leq 0.002, C_R > 1 μ 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_{IS} (or)

time constant T = C_R X R_{IS} at 25 $^{\circ}$ C

relative humidity \leq 70%

V_R

> 100 V DC

C > 0.33 μ F

10,000s



Dimensions for Powder Coated Capacitors

Rated Voltage	Rated Cap (μfd)	Max.			
		TH mm	H mm	W Mm	D mm
27.5 mm Pitch (±1.0)					
250 VAC	1.0	8.0	16.0	31.0	0.8
	1.5	9.0	17.0	31.0	0.8
	2.2	10.0	20.0	31.0	0.8
	2.5	10.5	21.0	31.0	0.8
	2.7	10.5	20.0	31.0	0.8
	3.0	12.0	22.0	31.0	0.8
	3.3	13.0	22.5	31.0	0.8
	3.5	13.5	23.5	31.0	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 Mechanical Failure	Rated capacitance Rated voltage Tolerance Trade mark Lead wire broken Insufficient coating	Marking should be legible There shall be no mechanical failure	Visual inspection -do-	General inspection level II	1.0%
2	DIMENSION	Should confirm to the specification chart	As specified in the data sheet	Gauging	Special inspection level S-1	2.5%
3	ELECTRICAL PROPERTIES Voltage Proof Capacitance Tangent of loss angle Insulation Resistance	Between termination As per relevant specification Within specified tolerance As per relevant specification As per relevant specification	No break down or flash over of applicant Measuring frequency 1 kHz Measuring frequency 1 kHz As per method in the specification	Test voltage and duration of level 1	General Inspection	0.1%