KRISHNONICS FILM CAPACITOR
APPLICATION: FAN REGULATOR

METALIZED POLYESTER FILM CAPACITORS: ECONOMY SERIES (Resin Coated)

MAIN APPLICATION
For use in Switch type/Socket type Fan Regulator Circuits

CONSTRUCTION (RESIN COATED TYPE)
Low inductive cell of Metalized polyester film coated with epoxy resin, with tinned steel wire as leads.

VOLTAGE PROOF
Between terminals: 1.6 times of rated voltage for 5 seconds.

TANδ (DISSIPATION FACTOR) AT 20^{O} C

Frequency KHz	C_R >1 mfd
At 1	1%

LIFE TESTS
In excess of 20,000 on/off operations in fan regulator circuit without any breakdown in performance.

CLIMATIC CATEGORY
40/85/21

LIFE TEST CONDITIONS
(Loading at elevated temperature)
Loaded at 1.25 times rated voltage at 85^{O}C for 1000 hours
After the test
$\Delta c/c$: ≤ 5% of initial value.
Tan $\delta \leq 0.003$ $C_R \leq 1$ μF; ≤ 0.002, $C_R > 1$ μF

APPLICABLE SPECIFICATION
IEC 384-16, IEC 68

INSULATION RESISTANCE (Terminal to Body): 1 min w/o flashover at 300 VAC

CAPACITANCE VALUE, RATED VOLTAGE (DC)
Refer Dimension Chart

CAPACITANCE TOLERANCE
±5%, ± 10%

INSULATION RESISTANCE

Minimum Insulation Resistance R	V_R	C > 0.33 μ F
Minimum Insulation Resistance R_{IS} (or) time constant $T = C_R \times R_{IS}$ at 25^{O} C relative humidity ≤ 70%	> 100 V DC	10,000s

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`Dimensions for Resin Coated Capacitors

Rated Voltage	Rated Cap (μfd)	Max. Th mm	H mm	W Mm	D mm
	15 mm Pitch (±1.0)				
250 V	1.0	10.0	15.5	18.0	0.8
	22.5 mm Pitch (±1.0)				
250 V	1.0	8.0	16.0	26.5	0.8
	2.2	10.0	20.0	26.5	0.8
	3.3	12.0	22.0	26.5	0.8
	27.5 mm Pitch (±1.0)				
250 V	1.0	8.0	16.0	31.0	0.8
	1.5	9.0	17.0	31.0	0.8
	2.2	12.5	21.0	31.0	0.8
	2.5	9.0	21.0	31.0	0.8
	2.7	11.5	20.0	31.0	0.8
	3.0	12.5	22.0	31.0	0.8
	3.3	14.0	24.0	31.0	0.8
	3.5	14.5	22.5	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	Rated capacitance	Marking should be legible	Visual inspection	General inspection level II	1.0%
	Marking	Rated voltage				
		Tolerance				
		Trade mark	There shall be no	-do-		
	Mechanical Failure	Lead wire broken	mechanical failure			
		Insufficient coating				
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%
		As per relevant specification				
	Capacitance	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			