



KRISHNONICS CAPACITORS

PLAIN POLYESTER FILM CAPACITORS

(Inductive)

MAIN APPLICATION

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

CONSTRUCTION

Film / foil inductive type construction with aluminum foil as electrode and polyester (PET) film as dielectric coated with flame

CLIMATIC CATEGORY

400/100/56

APPLICABLE SPECIFICATION

IEC 384/11, IEC 68

CAPICITANCE VALUE

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

VOLTAGE PROOF

Between terminals: 2 times of rated voltage for 2 seconds

INSULATION RESISTANCE

Minimum Insulation Resistance R_{IS} (or) time constant $T = C_R \times R_{IS}$ at 25°C, relative humidity $\leq 70\%$

TAN δ

1.0% (maximum) at 1 kHz.

LIFETEST CONDITIONS

(Loading at elevated temperature)

Loaded at 1.5 times of rated voltage 85° C or 1.5 times of category voltage at 100°C for 1000 hours

After the test:

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

Tan $\delta : \leq 0.01$ or 1.2 times the value measured before the test whichever is higher.

Insulation resistance: 50% of the value mentioned in IR chart.

APPROVALS

Capacitors are tested as per IEC 384-11

Minimum Insulation Resistance R_{IS} (or) time constant $T = C_R \times R_{IS}$ at 25°C, relative humidity $\leq 70\%$	V_R	$C_R \leq 0.33 \mu F$	$C_R \leq 0.33 \mu F$
	$\leq 100 V DC$	30,000 $M\Omega$	10,000 s
	$\leq 250 V DC$	30,000 $M\Omega$	10,000 s



Rated Voltage	Rated Cap (µfd)	Maximum Dimensions (mm)						
		W	H	T	S ± 0.5	F ± 0.8/-0.2	D ± 0.05	
63V DC	0.1	9.0	14.0	4.5	7.0	5.0	0.5	
	100 V DC	0.001	6.0	11.5	3.5	4.0	5.0	0.5
		0.0015	6.0	11.5	3.5	4.0	5.0	0.5
		0.0022	6.0	11.5	3.5	4.0	5.0	0.5
		0.0027	6.5	11.5	3.5	4.0	5.0	0.5
		0.0033	6.0	11.5	3.5	4.0	5.0	0.5
		0.0039	6.0	11.5	3.5	4.0	5.0	0.5
		0.0047	6.0	11.5	3.5	4.0	5.0	0.5
		0.0056	6.0	11.5	3.5	4.0	5.0	0.5
		0.0068	6.0	11.5	3.5	4.0	5.0	0.5
		0.0091	6.5	11.5	3.5	4.0	5.0	0.5
		0.01	6.5	11.5	3.5	4.0	5.0	0.5
		0.015	6.5	11.5	3.5	4.0	5.0	0.5
		0.022	6.5	13.0	3.5	4.5	5.0	0.5
		0.027	6.5	13.0	4.5	5.0	5.0	0.5
		0.033	6.5	13.0	4.5	5.0	5.0	0.5
		0.039	8.5	13.0	4.5	5.5	5.0	0.5
		0.047	8.5	13.0	4.5	5.5	5.0	0.5
		0.056	9	13.0	4.5	6.0	5.0	0.5
		0.068	9	14.0	5.0	7.0	5.0	0.5
	0.082	10	14.0	5.5	7.0	5.0	0.5	
	0.1	10	14.0	5.5	7.0	5.0	0.5	
	0.15	11	15.0	6.0	7.5	5.0	0.5	
	0.22	11	17.0	6.0	8.5	-	0.5	
	0.47	15	21.0	8.0	11.5	-	0.5	
250 V DC	0.001	6.0	11.5	3.5	4.0	5.0	0.5	
	0.0015	6.0	11.5	3.5	4.0	5.0	0.5	
	0.0022	6.0	11.5	3.5	4.0	5.0	0.5	
	0.0027	6.5	11.5	3.5	4.0	5.0	0.5	
	0.0033	6.0	11.5	3.5	4.0	5.0	0.5	
	0.0047	6.0	11.5	3.5	4.0	5.0	0.5	
	0.01	7.5	13.0	4.0	5.0	5.0	0.5	
	0.015	8.0	13.0	4.5	5.5	5.0	0.5	
	0.022	9.0	13.0	4.5	6.0	5.0	0.5	
	0.033	9.5	13.0	5.0	7.0	5.0	0.5	
	0.047	11.0	14.0	6.0	7.0	7.5	0.5	
	0.1	13.0	18.0	6.5	9.0	-	0.5	
	400 V DC	0.001	6.0	11.5	3.5	4.0	5.0	0.5
		0.0015	6.0	11.5	3.5	4.0	5.0	0.5
		0.0022	6.0	11.5	3.5	4.0	5.0	0.5
0.0033		6.5	11.5	4.0	4.0	5.0	0.5	
0.0047		7.0	11.5	4.0	5.0	5.0	0.5	
0.0056		8.0	11.5	4.0	5.5	5.0	0.5	
0.01		8.5	12.0	4.5	6.5	5.0	0.5	
0.015		9.5	13.0	5.0	7.0	5.0	0.5	
0.022		10.0	14.0	5.5	7.0	5.0	0.5	
0.033		11.0	15.0	5.5	7.0	7.5	0.5	
0.047		12.0	15.0	7.0	7.0	-	0.5	
0.056		13.0	15.0	8.0	7.5	-	0.5	
0.1		15.0	18.0	8.0	11.0	-	0.5	
630 V DC		0.001	6.0	11.5	3.5	4.0	5.0	0.5
		0.0015	6.0	11.5	3.5	4.0	5.0	0.5
	0.0022	6.0	11.5	3.5	4.0	5.0	0.5	
	0.0033	8.5	15.0	4.0	5.0	5.0	0.5	
	0.0047	8.5	15.0	4.5	5.0	5.0	0.5	
	0.0068	9.0	15.0	4.5	5.5	5.0	0.5	
	0.01	10.0	15.0	5.0	7.5	7.5	0.5	
	0.015	11.0	15.0	7.0	7.5	-	0.5	
	0.022	13.0	15.0	7.0	8.5	-	0.5	
	0.033	13.0	15.0	8.0	7.5	-	0.5	
1000 V DC	0.001	6.5	12.0	4.0	4.0	5.0	0.5	
	0.0022	7.5	12.0	4.0	5.0	5.0	0.5	
	0.0033	9.0	14.0	5.0	6.0	5.0	0.5	
	0.0047	10.0	14.0	5.5	6.0	5.0	0.5	
	0.0068	11.0	14.0	6.0	5.5	5.0	0.5	

Note: These are most popular values. Other values in the range are available on request. For dimension please refer to the closest highest value



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%