PLAIN POLYESTER FILM CAPACITORS

Film /Foil Non Inductive Type (Dip Type)

MAIN APPLICATION
Blocking, Bypassing, Filtering, Coupling and Decoupling, Interference Suppression in low voltage application, Low pulse application.

CONSTRUCTION
Film/foil inductive type construction with aluminum foil as electrode and polyester (PET) film as dielectric coated with flame retardant epoxy resin.

CLIMATIC CATEGORY
40/100/56

Max Temp Rating: 125°C
Between 85° C and 125°C, a voltage derating of 1.25% per °C on the rated voltage has to be applied

APPLICABLE SPECIFICATION
IEC 384-11,

CAPACITANCE VALUE, RATED VOLTAGE(DC)
Refer Dimension chart

CAPACITANCE TOLERANCE: ±5%, ±10%

VOLTAGE PROOF
Between terminals: 2 times of rated voltage for 2 seconds.

TAN ¢

0.8% (maximum) at 1 Khz.

LIFE TEST CONDITIONS
(Loading at elevated temperature)
Loaded at 1.5 times of rated voltage at 85° C for 1000 hours.

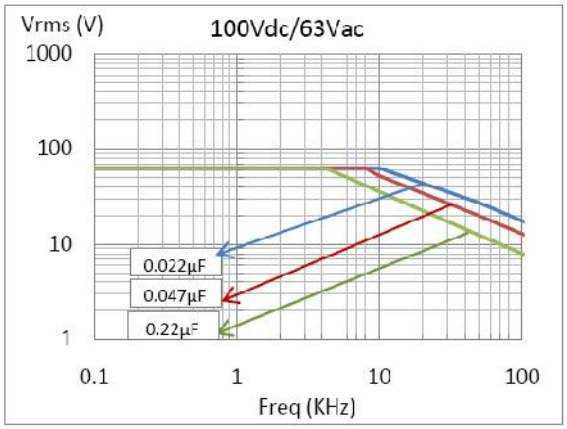
Criteria after the test:
a**c/c**: ≤ 5% of initial value.
Change in Tan ¢: ≤ 0.01 or 1.2 times the value measured before the test, whichever is higher.
Insulation resistance: ≥ 50% of the value mentioned in IR chart.

APPROVALS: Capacitors tested at ERTL (North) as per IEC 384-11

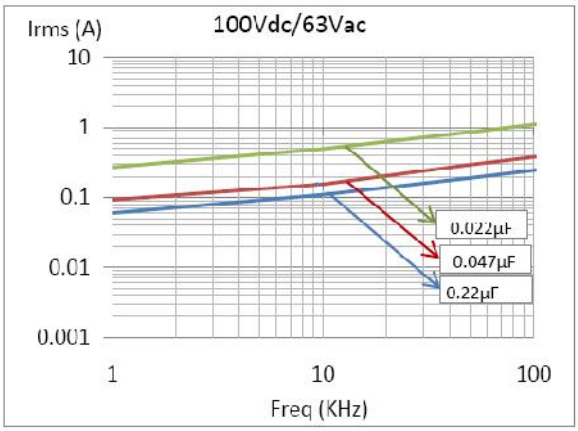
INSULATION RESISTANCE

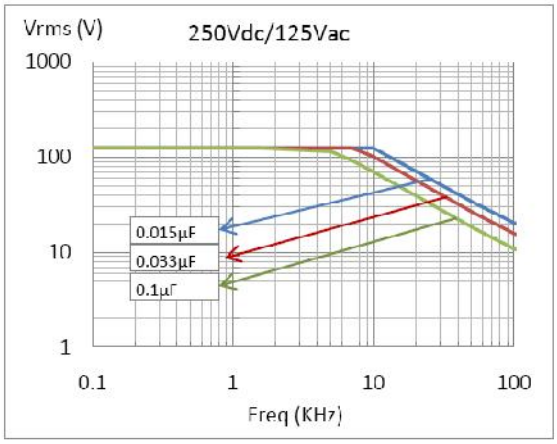
Minimum Insulation Resistance R_{IS}	V_R	$C_R \leq 0.33\ \mu F$	$C_R > 0.33\ \mu F$
(or) time constant $T=C_R \times R_{IS}$	≤ 100 V DC	30,000 MΩ	10000 S
at 25° C, relative humidity ≤ 70%	≥ 250 V DC	30,000 MΩ	10000 S

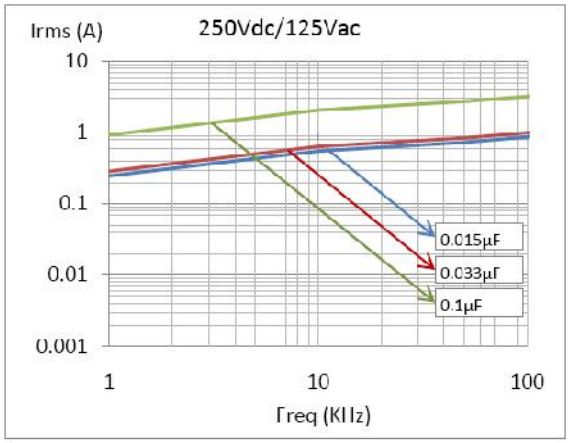
Max.Voltage (Vrms) Vs Frequency
(Sinusoidal Waveform at T ≤ 55°C)

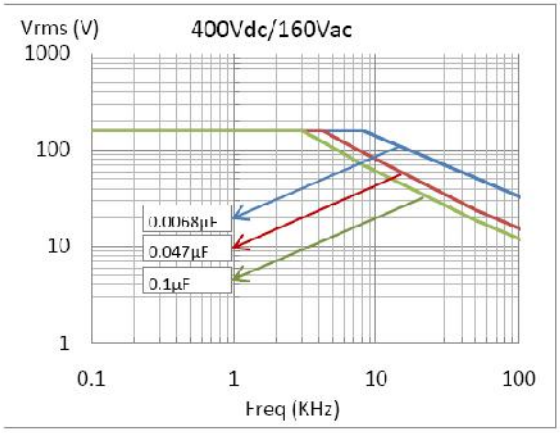


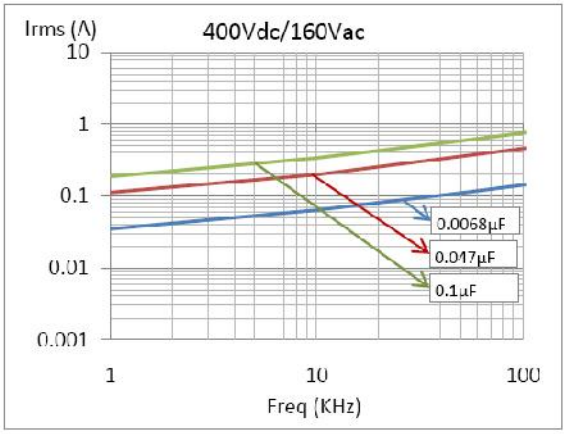
Max. Current (Irms) Vs Frequency
(Sinusoidal Waveform at T ≤ 55°C)




Vrms (V)
250Vdc/125Vac
1000
100
10
1
0.1
1
10
100
Freq (KHz)
0.015µF
0.033µF
0.1µF


Irms (A)
250Vdc/125Vac
10
1
0.1
0.01
0.001
1
10
100
Freq (KHz)
0.015µF
0.033µF
0.1µF


Vrms (V)
400Vdc/160Vac
1000
100
10
1
0.1
1
10
100
Freq (KHz)
0.0068µF
0.047µF
0.1µF


Irms (A)
400Vdc/160Vac
10
1
0.1
0.01
0.001
1
10
100
Freq (KHz)
0.0068µF
0.047µF
0.1µF

Ordering code and packing units:Plain polyester film capacitors(film-foil non inductive-Dip type)

Rated Voltage	Rated Cap.(mfd)	Maximum Dimensions(mm) W	H	L	d ±0.05	S ±1.0	F ±0.5	Dv/dt V	Weight in gm	Ordering code	Packing units Ammo	Bulk	
100V DC	0.015	4.5	9.5	14	0.6	10	10	10000	0.4	25 153 +2A*^	-	2000	**DIP TYPE**
	0.022	5.5	10	14	0.6	10	10	10000	0.6	25 223 +2A*^	-	2000	
	0.033	6	10.5	14	0.6	10	10	10000	0.7	25 333 +2A*^	-	2000	
	0.047	7	11.5	14	0.6	10	10	10000	0.9	25 473 +2A*^	-	2000	
	0.1	7.5	13	19	0.8	15	15	10000	1.7	25 104 +2A*^	-	2000	
	0.22	7.5	15.5	27	0.8	22.5	-	10000	3.2	25 224 +2A*^	-	1000	
	0.33	9	17	27	0.8	22.5	-	10000	4.4	25 334 +2A*^	-	500	
	0.47	11	19	27	0.8	22.5	-	10000	6	25 474 +2A*^	-	500	
250 vdc	0.01	5	9.5	14	0.6	10	10	10000	0.5	25 103 +2E*^	-	2000	
	0.015	5.5	10	14	0.6	10	10	10000	0.6	25 153 +2E*^	-	2000	
	0.022	6.5	11	14	0.6	10	10	10000	0.8	25 223 +2E*^	-	2000	
	0.033	5.5	11	19	0.8	15	15	10000	1.1	25 333 +2E*^	-	2000	
	0.047	7	12.5	19	0.8	15	15	10000	1.4	25 473 +2E*^	-	2000	
	0.1	7.5	15	27	0.8	22.5	-	10000	2.7	25 104 +2E*^	-	1000	
	0.22	10	18	27	0.8	22.5	-	10000	4.5	25 224 +2E*^	-	500	
	0.33	10.5	19.5	32	0.8	27.5	-	10000	6.3	25 334 +2E*^	-	500	
	0.47	12.5	21.5	32	0.8	27.5	-	10000	9.1	25 474 +2E*^	-	250	
400 VDC	0.0068	6.5	12	14	0.6	10	10	10000	0.5	25 682 +2G*^	-	2000	
	0.01	6	10.5	14	0.6	10	10	10000	0.7	25 103 +2G*^	-	2000	
	0.015	6.5	12.5	19	0.6	15	15	10000	0.9	25 153 +2G*^	-	2000	
	0.022	7.5	13.5	19	0.8	15	15	10000	1.2	25 223 +2G*^	-	2000	
	0.033	7.5	16	19	0.8	15	15	10000	1.6	25 333 +2G*^	-	2000	
	0.039	8.5	14	19	0.8	15	15	10000	1.8	25 393 +2G*^	-	2000	
	0.047	9	16	19	0.8	15	15	10000	2.1	25 473 +2G*^	-	1000	
	0.1	11	19	19	0.8	15	15	10000	3.8	25 104 +2G*^	-	500	
630 VDC	0.0047	6	10.5	14	0.6	10	10	10000	0.7	25 472 +2J*^	-	2000	
	0.0068	7	11.5	14	0.6	10	10	10000	0.9	25 682 +2J*^	-	2000	
	0.01	6.5	13	19	0.8	15	10	10000	1.2	25 103 +2J*^	-	2000	
	0.015	7.5	13	19	0.8	15	15	10000	1.5	25 153 +2J*^	-	2000	
	0.022	7.5	14.5	19	0.8	15	15	10000	2	25 223 +2J*^	-	1000	
	0.033	7.5	15.5	27	0.8	22.5	-	10000	2.8	25 333 +2J*^	-	1000	
	0.047	9	17	27	0.8	22.5	-	10000	3.5	25 473 +2J*^	-	500	
	0.1	11.5	20.5	32	0.8	27.5	-	10000	6.2	25 104 +2J*^	-	500	
1000VDC	0.01	5.2	11.2	13.2	0.8	10	-	10000	0.6	31 103 +3A*^	-	500	**BOX TYPE**