High Voltage Film Capacitors

Series Code
134

High Voltage Ceramic Disc Capacitor Replacement

Main Application
Oscillator, timing and LC/RC filter circuits, high frequency coupling of fast digital and analogue ICs.

Construction
Film/foil inductive type construction with aluminum foil as electrode and plastic film as dielectric coated with flame retardant epoxy resin.

Climatic Category
40/100/56

Applicable Specification
IEC 384-13

Maximum Temperature Rating
100° C

Capacitance Value, Rated Voltage (DC)
Refer dimension chart

Capacitance Tolerance
±1%, ±2%, ±2.5%, ±5%, ±10%

Voltage Proof
Between terminals: 2 times of rated voltage.

Tan δ
0.08% (maximum) at 1 kHz.

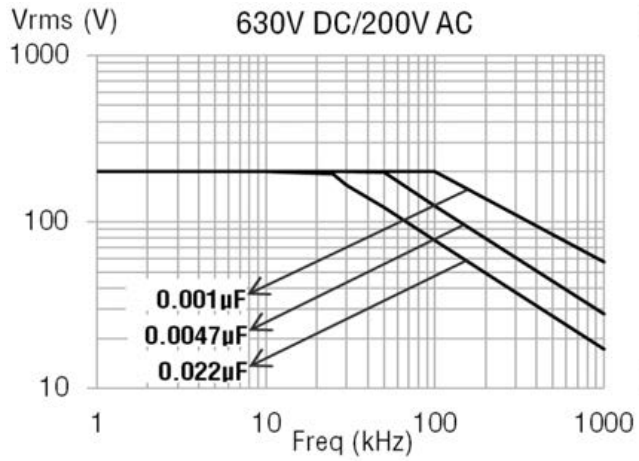
Life Test Conditions
(Loading at elevated temperature)
Loaded at 1.5 times of rated voltage at 85° C or 1.5 times of category voltage at 100° C for 1000 hours. Category voltage is 80% of rated voltage.

After the test:
Δc/c: ≤ 5% of initial value.
Increase of Tan δ: ≤ 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.

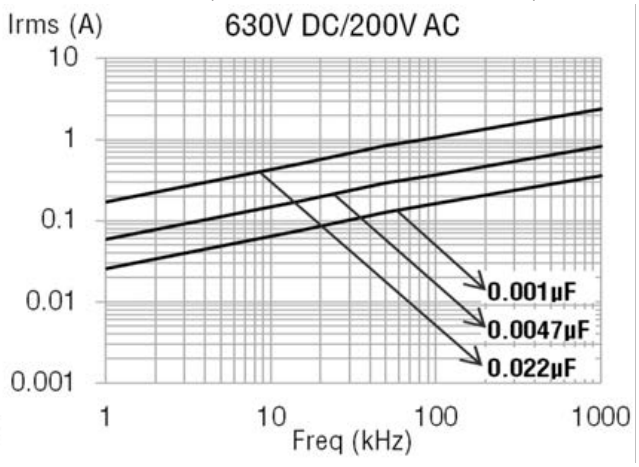
Insulation Resistance

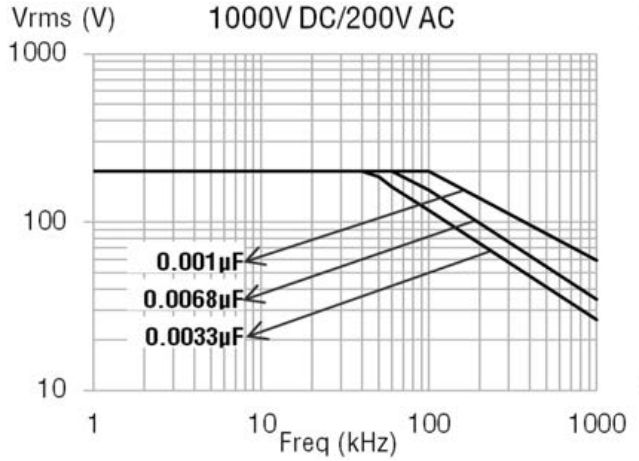
Minimum Insulation Resistance R_{IS} (or) time constant $= C_R \times R_{IS}$	V_R	$C_R \leq 0.1\mu F$	$C_R > 0.1\mu F$
at 25° C, relative humidity ≤70%	≥630 V DC	100 GΩ	10000 second RC

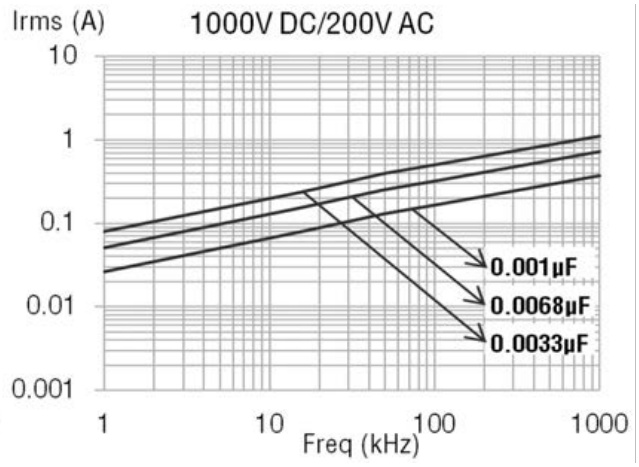
Max. Voltage (Vrms) vs. Frequency
(Sinusoidal Waveform at T ≤ 55° C)



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







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Max. Voltage (Vrms) vs. Frequency
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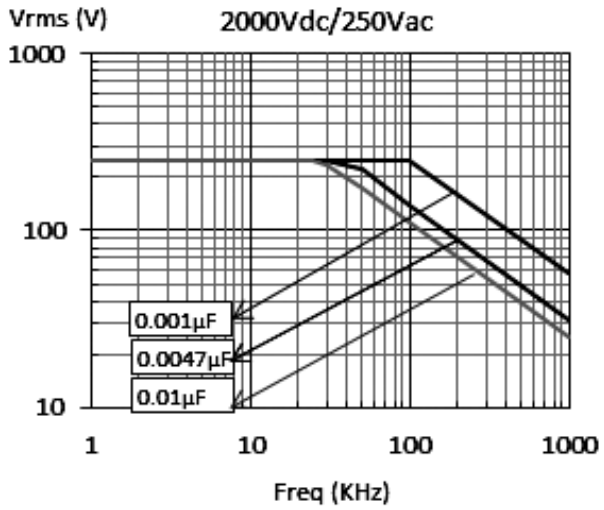

Max. Current (Irms) vs. Frequency
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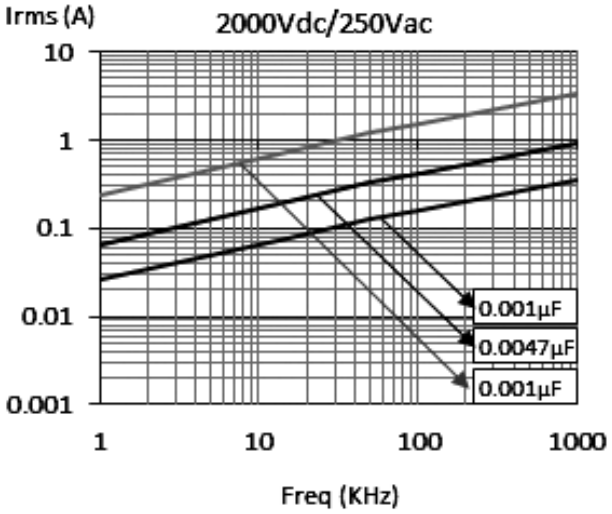
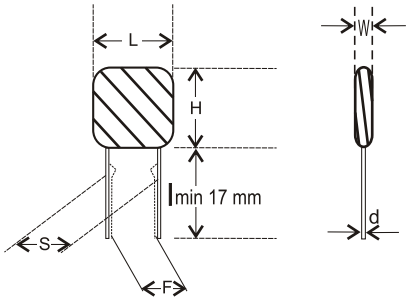


Ordering codes and packaging units

Rated Voltage	Rated Cap. (µfd)	Dimensions (mm) W ±0.5	H ±0.5	L ±0.5	d ±0.05	S ±0.5	F 0.8/-0.2	DV/DT V/µs	Wt. g	Ordering code	Packing units Ammo	Bulk
630V DC	0.00010	5.5	14	9.0	0.5	5.0	5	10000	0.12	134 101 +2J*^	4500	2000
	0.00033	6.5	14	9.5	0.5	5.0	5	10000	0.13	134 331 +2J*^	4500	2000
	0.00047	4.5	12	6.5	0.5	4.0	5	10000	0.16	134 471 +2J*^	4500	2000
	0.00068	4.5	13	6.5	0.5	5.0	5	10000	0.20	134 681 +2J*^	4500	2000
	0.00082	5.0	13	7.5	0.5	4.0	5	10000	0.22	134 681 +2J*^	4500	2000
	0.00100	5.5	13	7.5	0.5	4.0	5	10000	0.24	134 102 +2J*^	4500	2000
	0.00150	5.0	13	7.5	0.5	4.0	5	10000	0.36	134 152 +2J*^	4500	2000
	0.00220	5.5	14	8.5	0.5	5.0	5	10000	0.38	134 222 +2J*^	4500	2000
	0.00330	5.0	14	9.5	0.5	5.0	5	10000	0.41	134 332 +2J*^	4000	2000
	0.00470	6.0	13	9.5	0.5	5.0	5	10000	0.45	134 472 +2J*^	2500	2000
	0.00680	6.5	14	10.5	0.5	5.5	5	10000	0.60	134 682 +2J*^	1500	2000
	0.01000	8.0	15	12.5	0.5	7.5	5	10000	0.75	134 103 +2J*^	1500	2000
	0.02200	10.0	20	14.0	0.5	8.5	5	10000	1.12	134 223 +2J*^	1500	1000
1000V DC	0.00010	5.5	14	9.0	0.5	5.0	5	10000	0.12	134 101 +3A*^	4500	2000
	0.00033	6.5	14	9.5	0.5	5.0	5	10000	0.13	134 331 +3A*^	4500	2000
	0.00047	4.5	12	6.5	0.5	4.0	5	10000	0.16	134 471 +3A*^	4500	2000
	0.00068	4.5	13	6.5	0.5	5.0	5	10000	0.20	134 681 +3A*^	4500	2000
	0.00082	5.0	13	7.5	0.5	4.0	5	10000	0.22	134 681 +3A*^	4500	2000
	0.00100	6.0	14	8.5	0.5	4.5	5	10000	0.28	134 102 +3A*^	4500	2000
	0.00220	6.5	15	9.5	0.5	5.0	5	10000	0.28	134 222 +3A*^	4500	2000
	0.00330	6.5	14	10.0	0.5	5.0	5	10000	0.35	134 332 +3A*^	4000	2000
	0.00470	8.0	15	11.0	0.5	5.0	5	10000	0.36	134 472 +3A*^	2500	2000
	0.00680	8.0	15	11.5	0.5	5.0	5	10000	0.55	134 682 +3A*^	2500	2000
2000V DC	0.00010	5.5	14	9.0	0.5	5.0	5	10000	0.12	134 101 +3D*^	4500	2000
	0.00033	6.5	14	9.5	0.5	5.0	5	10000	0.13	134 331 +3D*^	4500	2000
	0.00100	5.5	14	9.0	0.5	5.0	5	10000	0.28	134 102 +3D*^	4500	2000
	0.00220	6.5	14	10.5	0.5	5.0	5	10000	0.31	134 222 +3D*^	4500	2000
	0.00470	9.0	15	13.0	0.5	5.5	5	10000	0.38	134 472 +3D*^	2500	2000
	0.01000	12.0	16	16.5	0.5	7.5	5	10000	0.81	134 103 +3D*^	2000	1000



Note: For more details please contact shariq@dekielectronics.com or pant@dekielectronics.com