



ALUMINUM ELECTROLYTIC CAPACITOR

TYPE RE

LOW ESR, HIGH RIPPLE CURRENT, RADIAL LEADS

FEATURES:

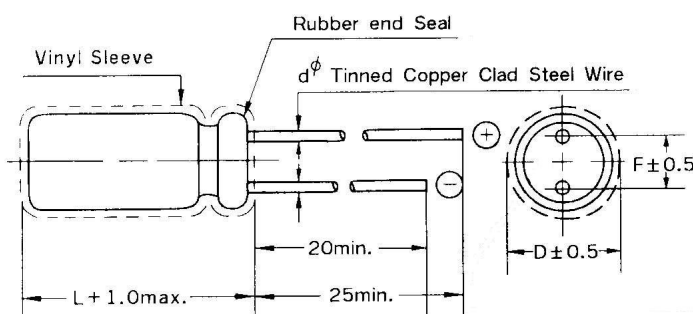
- Low impedance and ESR, high ripple current, suitable for switching power supplies and other high frequency equipment.



SPECIFICATIONS:

Item	Type RE									
Operating Temperature Range	-40 to +105									
Capacitance tolerance	±20% at 120 Hz, 20									
Leakage Current (I=DC Current in μ A max.)	$I \leq 0.01CV$ or 3μ A, measured after 3 minutes application of rated working voltage Where, C =Rated Capacitance (μ F) V =Rated Working Voltage (V DC)									
Working Voltage (DC)	6.3V	10V	16V	25V	35V	50V	63V	100V		
Surge Voltage (DC)	8V	13V	20V	32V	40V	63V	79V	125V		
Dissipation Factor ($\tan \delta$) max. at 120 Hz	0.18	0.15	0.12	0.10	0.08	0.06	0.06	0.06		
Impedance Ratio at Low Temperature at 120 Hz	W.V.		6.3V	10V	16V	25V	35V	50V	63V	100V
	Z@ -25 / Z@ +20		4	3	3	2	2	2	2	2
	Z@ -40 / Z@ +20		6	5	4	3	3	3	3	3
Load Life Test (after 1000 hours application of the rated voltage, at 105)	The capacitor shall meet following limits: Capacitance Change $\pm 20\%$ of initial value Leakage Current specified maximum value Dissipation Factor 200% of specified maximum value									
Shelf Life Test (after 1000 hours exposing at 105 without voltage applied)	The capacitor shall meet following limits: Capacitance Change $\pm 20\%$ of initial value Leakage Current specified maximum value Dissipation Factor 200% of specified maximum value									

DIAGRAM OF DIMENSION



Dimensions in mm

D ψ	8	10	13
F	3.5	5.0	5.0
d ψ	0.5	0.6	0.6



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CASE SIZE (DxL mm) AND PERMISSIBLE RIPPLE CURRENT (mA rms, at 85 120 Hz):

W.V.	6.3V		10V		16V		25V		35V		50V		63V		100V	
μ F	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
1.0															8X12	30
2.2															8X12	40
3.3											8X12	60	8X12	60	8X12	60
4.7									8X12	70	8X12	70	8X12	70	10X20	70
10									8X12	90	8X12	100	8X12	100	10X20	140
22							8X12	120	10X13	150	10X13	180	10X16	200	13X20	250
33					8X12	130	10X13	170	10X16	210	10X16	240	10X20	260	13X26	340
47	8X12	130	8X12	140	10X13	180	10X13	200	10X16	250	10X20	310	13X21	370	13X35	490
100	10X13	220	10X16	270	10X16	300	10X20	360	13X21	470	13X26	590	13X35	720		
220	10X20	390	10X20	430	13X21	570	13X21	620	13X26	760	13X35	1070				
330	13X21	570	13X21	620	13X26	760	13X26	830	13X35	1140						
470	13X21	680	13X26	810	13X35	1110	13X35	1220								
1000	13X26	1090	13X35	1450												

MAX ESR IN OHMS (at 120Hz / 1KHz, 20)

W.V.	6.3V		10V		16V		25V		35V		50V		63V		100V	
μ F	120Hz	1KHz	120Hz	1KHz	120Hz	1KHz	120Hz	1KHz	120Hz	1KHz	120Hz	1KHz	120Hz	1KHz	120Hz	1KHz
1.0															79	55.3
2.2															36	25.2
3.3															24	16.8
4.7															16	11.2
10													7.9	5.53	7.9	5.53
22							4.8	2.88	4.2	2.52	3.6	2.50	3.6	2.50	3.6	2.52
33					4.0	2.40	3.2	1.92	2.8	1.68	2.4	1.68	2.4	1.68	2.4	1.68
47			3.3	1.98	2.8	1.68	2.2	1.32	1.9	1.14	1.6	1.12	1.6	1.12	1.6	1.12
100	1.5	0.90	1.5	0.90	1.3	0.78	1.0	0.60	0.92	0.55	0.79	0.55	0.79	0.55		
220	0.72	0.43	0.72	0.43	0.60	0.36	0.48	0.28	0.42	0.25	0.36	0.25				
330	0.48	0.28	0.48	0.28	0.40	0.24	0.32	0.19	0.28	0.16						
470	0.33	0.19	0.33	0.19	0.28	0.16	0.22	0.13								
1000	0.10	0.06	0.10	0.06												

TYPE RE

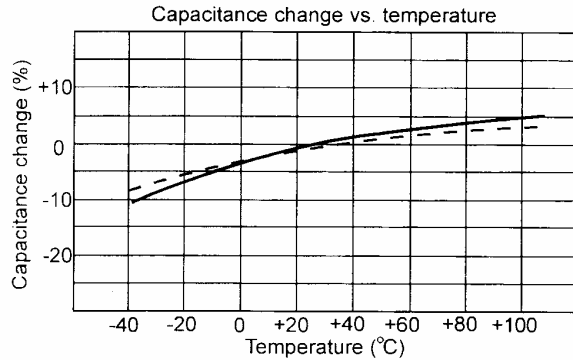
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TYPICAL CHARACTERISTIC CURVES

----- 470 μ F 16V

———— 1000 μ F 6.3V

⊙TEMPERATURE CHARACTERISTICS



⊙LOAD LIFE TEST (at +105°C)

