

RT8639A AC filter Film Capacitor



► Features

Low ESR , high ripple current handing capabilities
Low LS , self-healing property, long lifetime

► Application

Widely used in power electronic equipment used to the AC filter
In the high-power UPS 、 inverter and other equipment for the AC filter

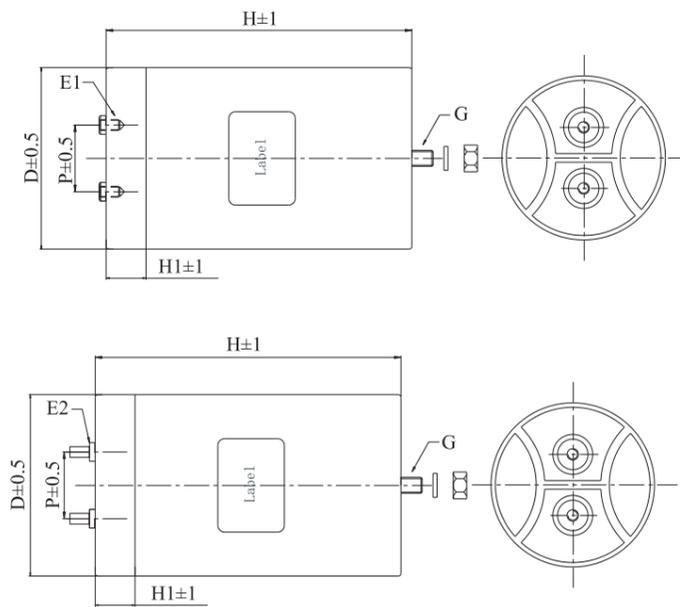
► Technical data

■ Capacitance range	10 μ F ~ 500 μ F	■ Overvoltage (The longest duration/day) (30% of on-load-dur) 1.15 U_N : 30min/day 1.2 U_N : 5min/day 1.3 U_N : 1min/day 1.5 U_N : 30ms every time , 1000times during the life of the capacitor
■ Rated Voltage	330 V_{AC} ~ 850 V_{AC}	
■ Capacitance Tolerance	J: $\pm 5\%$, K: $\pm 10\%$	
■ Dissipation factor tg δ	≤ 0.002 (25 $^{\circ}$ C, 100 Hz)	
■ Operating temperature range	-40 $^{\circ}$ C ~ 85 $^{\circ}$ C	■ Max torque of electrode M6: 5 N.m M8: 6 N.m
■ Storage temperature range	-40 $^{\circ}$ C ~ 105 $^{\circ}$ C	
■ Voltage Endurance Between Terminals : 1.5 U_N (10 s) Terminals to Case : $\sqrt{2}$ U_N +1000 V (10 s)		■ Humidity 95 % (T_{Test} =56 days)
		■ Maximum Altitude 2000 m
■ Installation	Threaded bolt M12	■ Lifetime Expectancy 100 000 h @ U_N ; $\theta_{hotspot} \leq 70$ $^{\circ}$ C

► Part number sysem

Model code					Voltage type	Number of phases	Rated voltage			Nominal capacity			Capacitance Tolerance	Lead out mode	Lead pitch	Terminal type
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
R	T	8	6	3	9	A	1	1	2	4	7	7	J	3	4	2
Number 1~5 Model code																
Number 6 Voltage type					*6* Frequency<10kHz, *9* Frequency>10kHz,											
Number 7 Number of phases					A=One-phase											
Number 8~10 Rated voltage					e.g.,112=11 $\times 10^2$ V=1100 V, 451=45 $\times 10^1$ V=450 V											
Number 11~13 Nominal capacity					e.g.,477=47 $\times 10^7$ pF=47 $\times 10^4$ nF=470 μ F											
Number 14 Capacitance Tolerance					J= $\pm 5\%$, K= $\pm 10\%$, M= $\pm 20\%$											
Number 15 Lead out mode					3= Bolt type 4=Screw hole type											
Number 16 Lead pitch					4=32 mm 7=45 mm 6=50 mm											
Number 17 Terminal type					2=M6 3=M8											

► The contour map



► Measurement

ΦD(mm)	P(mm)	H1(mm)	G	E1	E2
76	32	20	M12X16	M6X10	M6X20
86	32	20	M12X16	M6X10	M6X20
96	45	20	M12X16	M6X10	M6X20
116	45	30	M12X16	M8X10	M8X20
116	50	22	M12X16	M8X10	M8X20
136	50	30	M12X16	M8X10	M8X20

► The contour map

U _N	C _N (μF)	ΦD (mm)	H (mm)	ESR @1kHz (mΩ)	L _S (nH)	I _{max} (A) (60°C)	Part number
330VAC	80	76	80	4	40	30	RT8639A331806
	120	86	80	2.8	40	40	RT8639A331127
	150	96	80	3.5	45	50	RT8639A331157
	170	76	130	3.2	50	6	RT8639A331177
	230	86	130	2.4	50	70	RT8639A331237
	300	96	130	2.8	50	75	RT8639A331307
450 VAC	420	116	130	1.9	6	80	RT8639A331427
	50	76	80	4	40	30	RT8639A451506
	65	86	80	2.8	50	40	RT8639A451656
	80	96	80	3.5	45	50	RT8639A451806
	100	76	130	3.2	50	60	RT8639A451107
	130	86	130	2.4	45	70	RT8639A451137
690VAC	160	96	130	2.8	50	75	RT8639A451167
	250	116	130	1.9	60	80	RT8639A451257
	40	76	130	2.8	50	30	RT8639A691406
	50	76	150	2.4	45	35	RT8639A691506
	60	86	130	2.2	45	40	RT8639A691606
	65	86	150	1.8	50	45	RT8639A691656
	75	96	130	1.5	50	50	RT8639A691756
	80	96	150	1.2	55	60	RT8639A691806
850 VAC	110	116	130	0.8	60	65	RT8639A691117
	120	116	150	0.6	65	75	RT8639A691127
	25	76	130	1.5	50	35	RT8639A851256
	30	76	150	1.2	60	40	RT8639A851306
	32	86	130	1.15	45	50	RT8639A851326
	45	86	150	1.05	50	50	RT8639A851456
	40	96	130	1	50	50	RT8639A851406
	60	96	150	0.9	60	60	RT8639A851606
	60	116	130	0.85	60	65	RT8639A851606
90	116	150	0.8	65	75	RT8639A851906	