RXQ Series

Features

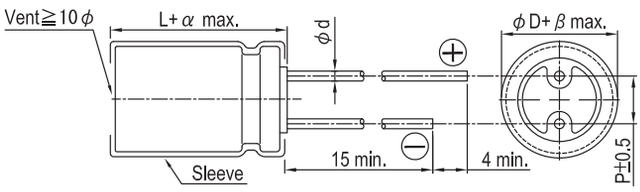
- 105℃, 8,000 ~ 10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS Compliance

Sleeve & Marking Color: Black & Golden

Specifications

Items	Performance						
Category Temperature Range	160 ~ 400V					450V	
	-40℃ ~ +105℃					-25℃ ~ +105℃	
Capacitance Tolerance	±20% (at 120Hz, 20℃)						
Leakage Current (at 20℃)	Time	after 5 minutes					
	Leakage Current	CV ≦ 1,000 I = 0.03CV+15(μA)				CV > 1,000 I = 0.02CV+25(μA)	
	Where, C = rated capacitance in μF V = rated DC working voltage in V						
Tanδ (at 120Hz, 20℃)	Rated Voltage	160	200	250	350	400	450
	Tanδ (max)	0.20	0.20	0.20	0.24	0.24	0.24
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.						
	Rated Voltage		160	200	250	350	400	450
	Impedance Ratio	Z(-25℃)/Z(+20℃)	3	3	3	5	5	6
		Z(-40℃)/Z(+20℃)	6	6	6	6	6	-
Endurance	Test Time	8,000 Hrs for φD = 10mm; 10,000 Hrs for φD ≥ 12.5mm						
	Capacitance Change	Within ±20% of initial value						
	Tanδ	Less than 200% of specified value						
	Leakage Current	Within specified value						
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 8,000 / 10,000 hours at 105°C.						
Shelf Life Test	Test Time	1,000 Hrs						
	Capacitance Change	Within ±20% of initial value						
	Tanδ	Less than 200% of specified value						
	Leakage Current	Within specified value						
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).						
Ripple Current and Frequency Multipliers	Frequency (Hz) / Cap. (μF)	120	1k	10k	100k up		
	6.8 ~ 82	1.00	1.75	2.25	2.50		
	100 up	1.00	1.67	2.05	2.25		

Diagram of Dimensions

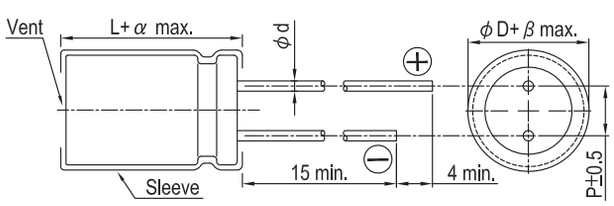


Lead Spacing and Diameter

Unit: mm

φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6		0.8	
α	L<20: 1.5, L≧20: 2.0			
β	0.5			

The case size of 16×20, 18×20 and 18×25 are suitable for below diagram:



All product specifications in the catalog are subject to change without notice. (CAT. 2018E1)

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 105°C

Dimension and Permissible Ripple Current

Cap.(μF) \ VDC	160V (2C)			200V (2D)			250V (2E)			350V (2V)			400V (2G)		
Contents	ϕD×L	Ripple Current 120 Hz	Ripple Current 100k Hz	ϕD×L	Ripple Current 120 Hz	Ripple Current 100k Hz	ϕD×L	Ripple Current 120 Hz	Ripple Current 100k Hz	ϕD×L	Ripple Current 120 Hz	Ripple Current 100k Hz	ϕD×L	Ripple Current 120 Hz	Ripple Current 100k Hz
6.8										10×16	110	275	10×16	110	275
10	10×12.5	100	250	10×16	125	313	10×20	140	350	10×20	140	350	10×20	140	350
22	10×16 10×20	170 200	425 500	10×20	200	500	10×20	200	500	12.5×20	260	650	12.5×20	260	650
33	10×20	250	625	10×20	260	650	12.5×20	320	800	16×20	360	900	16×20	360	900
47	10×20	300	750	12.5×20	390	975	12.5×20	390	975	16×20	430	1,075	16×25 18×20	470 450	1,175 1,125
68	12.5×20	470	1,175	12.5×20	470	1,175	16×20	520	1,300	16×25 18×20	560 550	1,400 1,375	18×25	585	1,463
82	12.5×20	510	1,275	16×20	550	1,375	16×20	550	1,375	18×25	610	1,525	18×25	610	1,525
100	12.5×25 16×20	620 630	1,395 1,418	16×20	630	1,418	16×25	680	1,530	18×25	700	1,575	18×31.5	765	1,721
120										18×31.5	830	1,868	18×35.5	865	1,946
150	16×25	770	1,733	16×25	840	1,890	18×25	860	1,935	18×35.5	960	2,160	18×40	985	2,216
220	16×31.5	1,020	2,295	18×25	1,050	2,363	18×31.5	1,130	2,543						
330	18×35.5	1,390	3,128	18×35.5	1,430	3,218									

Cap.(μF) \ VDC	450V (2W)		
Contents	ϕD×L	Ripple Current 120 Hz	Ripple Current 100k Hz
6.8	10×20	110	275
10	12.5×20	180	450
22	16×20	290	725
33	16×25 18×20	390 380	975 950
47	18×25	480	1,200
68	18×31.5	630	1,575
82	18×35.5	715	1,788
100	18×40	800	1,800

Part Numbering System

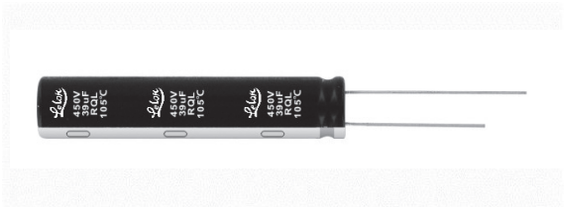
RXQ Series	10μF	±20%	450V	Bulk Package	Gas Type	12.5ϕ×20L	Pb-free and PET sleeve
RXQ	**100**	**M**	**2W**	**BK**	**-**	**1320**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & Package	Rubber Type	Case Size	Lead Wire and Sleeve type

Note: For more details, please refer to “Part Numbering System (Radial Type)” on page 13.

RQL Series

Features

- 105℃, 10,000 hours assured
- 10ϕ ~ 18ϕ with large permissible ripple current
- Slim type included
- RoHS Compliance

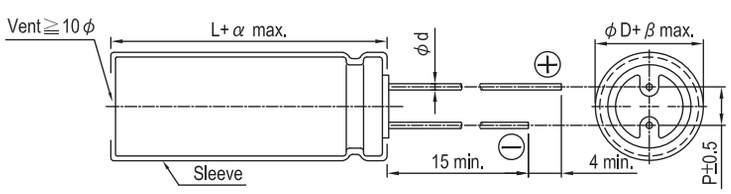


Sleeve & Marking Color: Black & Golden

Specifications

Items	Performance		
Category Temperature Range	400V	420 ~ 450V	
	-40℃ ~ +105℃	-25℃ ~ +105℃	
Capacitance Tolerance	±20%		(at 120Hz, 20℃)
Leakage Current (at 20℃)	Time: after 5 minutes Leakage Current: CV ≦ 1,000 → I = 0.03CV + 15(μA); CV > 1,000 → I = 0.02CV + 25(μA) Where, C = rated capacitance in μF V = rated DC working voltage in V		
Tanδ (at 120Hz, 20℃)	Rated Voltage: 400 / 420 / 450 Tanδ (max): 0.24 / 0.24 / 0.24		
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below. Rated Voltage: 400 / 420 / 450 Impedance Ratio Z(-25℃)/Z(+20℃): 5 / 6 / 6 Impedance Ratio Z(-40℃)/Z(+20℃): 6 / - / -		
Endurance	Test Time: 10,000 Hrs Capacitance Change: Within ±20% of initial value Tanδ: Less than 200% of specified value Leakage Current: Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 10,000 hours at 105°C.		
Shelf Life Test	Test Time: 1,000 Hrs Capacitance Change: Within ±20% of initial value Tanδ: Less than 200% of specified value Leakage Current: Within specified value * The above specifications shall be satisfied when the capacitors are restored to 20° C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).		
Ripple Current and Frequency Multipliers	Frequency (Hz): 60 / 120 / 500 / 1k / 10k up Multipliers: 0.80 / 1.00 / 1.25 / 1.40 / 1.50		

Diagram of Dimensions



Lead Spacing and Diameter

Unit: mm

ϕD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6		0.8	
α	2.0			
β	0.5			

All product specifications in the catalog are subject to change without notice. (CAT. 2018E1)

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 105℃

Dimension and Permissible Ripple Current

Rated Voltage V_{DC}	Cap. (μF)	10ϕ			12.5ϕ			16ϕ			18ϕ		
		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current		ϕD×L	Ripple Current	
			120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz		120 Hz	100k Hz
400V (2G)	33	10×40	315	475									
	39	10×45	360	545									
	47	10×50	420	630	12.5×30	440	660						
	56				12.5×35	500	750						
	68				12.5×40	580	870	16×31.5	530	795			
	82				12.5×50	625	935	16×35.5	615	920			
	100							16×40	715	1,070			
	120							16×40 16×45	800 840	1,200 1,260	18×35.5 18×40	790 870	1,185 1,305
	150							16×50	990	1,485	18×45	985	1,475
	180										18×50	1,120	1,685
420V (2P)	33	10×40	370	555									
	39	10×45	410	615	12.5×30	390	585						
	47	10×50	465	700	12.5×35	450	675						
	56				12.5×40	520	780	16×31.5	500	750			
	68				12.5×45	580	870	16×35.5	580	870			
	82				12.5×50	660	990	16×35.5 16×40	730 675	1,095 1,010			
	100							16×40 16×45	750 755	1,125 1,130	18×35.5	725	1,085
	120							16×50	865	1,300	18×40 18×45	835 880	1,250 1,320
	150										18×50	1,030	1,550
450V (2W)	33	10×45	330	495	12.5×30	370	555						
	39	10×50	380	570	12.5×35	420	630						
	47				12.5×40	480	720						
	53				12.5×45	500	750						
	56				12.5×45	530	795	16×31.5	510	765			
	68				12.5×50	620	930	16×35.5	590	885			
	82							16×40	615	920	18×35.5	645	965
	100							16×45	715	1,070	18×40	750	1,125
	120							16×50	820	1,230	18×45	835	1,250
	150										18×50	975	1,465

Remark: Other sizes and specification are available, please contact us for detail.

Part Numbering System

RQL Series	39μF	±20%	450V	Bulk Package	Gas Type	10ϕ×50L	Pb-free and PET sleeve
RQL	**390**	**M**	**2W**	**BK**	**-**	**1050**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & Package	Rubber Type	Case Size	Lead Wire and Sleeve type

Note: For more details, please refer to “Part Numbering System (Radial Type)” on page 13.

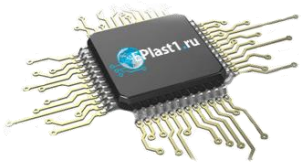
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.