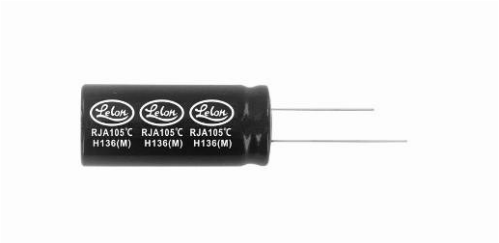
RJA Series

Features

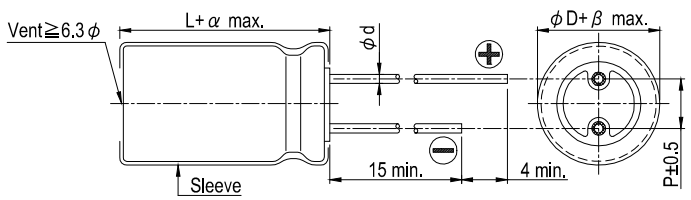
- 105℃, wide temperature range
- Suitable for high reliability products
- RoHS compliant
- AEC-Q200 compliant. Please contact us for details.



Specifications

Items	Performance								
Category Temperature Range	6.3 ~ 63V						100V		
	-55℃ ~ +105℃						-40℃ ~ +105℃		
Capacitance Tolerance	± 20% (at 120 Hz, 20℃)								
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V								
Tanδ (at 120 Hz, 20℃)	Rated Voltage: 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Tanδ (max.): 0.23 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10 / 0.09 / 0.08 When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.								
Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below.								
	Rated Voltage		6.3	10	16	25	35	50	63	100
	Impedance Ratio	Z(-25℃) / Z(+20℃)	φD＜16	4	3	3	2	2	2	2	2
			φD≧16	5	4	3	2	2	2	2	3
		Z(-40/-55℃) / Z(+20℃)	φD＜16	8	6	4	4	4	3	3	3
			φD≧16	12	8	6	4	3	3	3	6
Endurance	Test Time: 2,000 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℃ after the rated voltage applied with rated ripple current for 2,000 hours at 105℃.								
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℃ after exposing them for 1,000 hours at 105℃ without voltage applied.								
Ripple Current and Frequency Multipliers	Freq.(Hz) / Cap.(μF)	60 (50)	120	500	1k	10k up			
	≦ 100	0.70	1.00	1.30	1.40	1.50			
	100 ＜ C ≦ 1,000	0.75	1.00	1.20	1.30	1.35			
	1,000 ＜	0.80	1.00	1.10	1.12	1.15			

Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

φD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5		0.6			0.8	
α	L＜20: 1.5, L≧20: 2.0						
β	0.5						

All product specifications in the catalog are subject to change without notice. (Cat. 2026E1)

Downloaded from Arrow.com.

Dimension: ϕD × L(mm)

Dimension and Permissible Ripple Current

Ripple Current: mA/rms at 120 Hz, 105℃

Rated Volt. (VDC) / Cap.(μF)	Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA
3.3	3R3											5×11	30			5×11	31
4.7	4R7											5×11	33	5×11	36	5×11	36
10	100											5×11	50	5×11	54	6.3×11	54
22	220											5×11	78	5×11 6.3×11	64 86	6.3×11 8×11.5	93 111
33	330									5×11	85	5×11	90	6.3×11	100	8×11.5 10×12.5	144 183
47	470							5×11	97	5×11	90	6.3×11	117	6.3×11	129	10×12.5	204
100	101					5×11	110	5×11 6.3×11	120 142	6.3×11	150	8×11.5	188	10×12.5	235	10×20	285
220	221			5×11	150	6.3×11	180	8×11.5	236	8×11.5	270	10×16	335	10×20	400	12.5×25	440
330	331			6.3×11	200	8×11.5	260	8×11.5	330	10×12.5	350	10×16 10×20	410 460	10×20 12.5×20	490 520	16×25	478
470	471	6.3×11	230	6.3×11 8×11.5	250 290	8×11.5	310	10×12.5	380	10×16	460	12.5×20	590	12.5×20 12.5×25	665 720	16×31.5	688
1,000	102	8×11.5	380	10×12.5	460	10×16	560	10×20	680	12.5×20	830	16×25	1,080	16×25	1,190		
2,200	222	10×16	690	10×20	760	12.5×20	920	12.5×25	1,090	16×25	1,260	16×35.5	1,470				
3,300	332	10×20	840	12.5×20	1,100	12.5×25	1,170	16×25	1,400	16×35.5	1,610	18×35.5	1,650				
4,700	472	12.5×20	1,090	12.5×25	1,260	16×25	1,480	16×31.5	1,710	18×35.5	1,900						
6,800	682	12.5×25	1,460	16×25	1,690	16×31.5	1,930	18×35.5	2,160								
10,000	103	16×25	1,990	16×31.5	2,220	18×31.5	2,330										
22,000	223	18×35.5	2,930	18×40	3,230												

Part Numbering System

RJA Series	470μF	± 20%	6.3V	Bulk Package	Gas Type	6.3ϕ×11L	General Purpose
RJA	**471**	**M**	**0J**	**BK**	**-**	**0611**	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size	Application

Note: For more details, please refer to “Part Numbering System - Radial Type” on page 141.

Downloaded from Arrow.com.