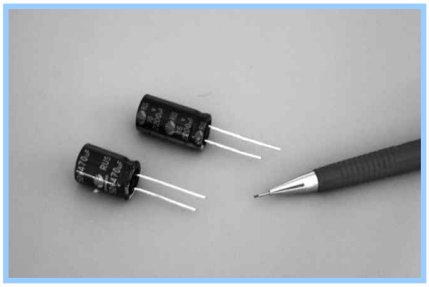
RUS SERIES

105℃, Stabdard, Radial Leads

▣ Features

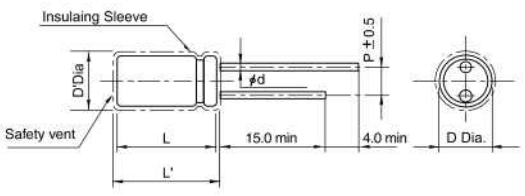
- 105℃, Standard, Radial
- Wide operating temperature range
- High and stable quality
- Load life of 2,000 hours at 105℃



▣ Specifications

Item	Performance Characteristics										
Operating temperature range	-40℃ ~ +105℃			-25℃ ~ +105℃			-25℃ ~ +105℃				
Rated working voltage range	6.3V ~ 100V			160V ~ 250V			350V ~ 500V				
Nominal capacitance range	0.1 μF ~ 15,000 μF , ±20% (at 20℃, 120Hz)										
D.C Leakage current(at 20℃)	The following specifications shall be satisfied when the rated voltage is applied for the required time.										
	I ≤ 0.01CV + 3μA (2min),			I ≤ 0.01CV + 20μA (3min)			I ≤ 0.02CV + 30μA (5min)				
	Where I = Leakage current(μA) C = Nominal capacitance(μF) V = Rated voltage (V)										
Tan δ (max., at 20℃, 120Hz)	W.V	6.3	10	16	25	35	50	63	100	160~250	350~500
	Tan δ	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.08	0.12	0.20
	When capacitance is over 1,000μF, Tanδ shell be added 0.02 to the listed value with increase of every each 1,000μF.										
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	6.3	10	16	25	35	50~100	160~250	350~500		
	Z-25℃/+20℃	4	3	2	2	2	2	2	6		
	Z-25℃/+20℃	8	6	4	3	3	3	3	-		
Load life	After applying rated working voltage for 2,000(Φ5, Φ6.3, Φ8 : 1,000) hours at +105℃ and then being stabilized at +20℃, capacitors shall meet following limits.										
	Capacitance change	Within ±20% of the initial measured value									
	Tan δ	≤200% of the initial specified value									
	Leakage current	≤The initial specified value									
Shelf life	After storage for 1,000hours at +105℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet following limits.										
	Capacitance change	Within ±20% of the initial measured value									
	Tan δ	≤200% of the initial specified value									
	Leakage current	≤The initial specified value (200% for ≥ 160 Vdc)									

▣ Dimensions



・Standard lead style

Φ D	5.0	6.3	8.0	10.0	12.5	16.0	18.0
P	2.0	2.5	3.5	5.0		7.5	
Φ d	0.5		0.6			0.8	

D' = [D+0.5] Max. L' = [L+1.5] Max. at D≤8.0
L' = [L+2.0] Max. at D≤10.0

▣ Ripple current coefficient

・Frequency

Cap(μF) \ Freq(Hz)	50	120	400	1K	10K	50~100K
Cap≤10	0.8	1.0	1.30	1.45	1.65	1.70
10≤Cap≤100	0.8	1.0	1.23	1.36	1.48	1.53
100≤Cap≤1000	0.8	1.0	1.16	1.25	1.35	1.38
1000≤Cap	0.8	1.0	1.11	1.17	1.25	1.28

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▣ Dimensions & Maximum permissible ripple current

μF \ V	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	500
0.1						5 x 11 3		5 x 11 3							
0.22						5 x 11 5		5 x 11 5							
0.33						5 x 11 6		5 x 11 6							
0.47						5 x 11 9		5 x 11 9							
1.0						5 x 11 14		5 x 11 15	6.3 x 11 14	6.3 x 11 14	6.3 x 11 14	8 x 11.5 16	8 x 11.5 16	8 x 11.5 16	8 x 11.5 12
2.2						5 x 11 21		5 x 11 23	6.3 x 11 22	6.3 x 11 22	8 x 11.5 26	10 x 12.5 30	10 x 12.5 30	10 x 12.5 30	10 x 12.5 20
3.3						5 x 11 26		5 x 11 32	8 x 11.5 32	8 x 11.5 31	10 x 12.5 37	10 x 12.5 38	10 x 16 39	10 x 16 39	10 x 20 29
4.7						5 x 11 32		5 x 11 37	8 x 11.5 36	10 x 12.5 42	10 x 16 45	10 x 16 48	10 x 16 48	10 x 20 48	12.5 x 20 36
10						5 x 11 48	5 x 11 51	6.3 x 11 60	10 x 16 66	10 x 16 66	10 x 20 72	10 x 20 77	12.5 x 20 85	12.5 x 20 85	12.5 x 25 50
22					5 x 11 66	5 x 11 73	6.3 x 11 85	8 x 11.5 103	10 x 20 110	10 x 20 110	12.5 x 20 133	12.5 x 25 142	16 x 25 148	16 x 25 148	16 x 25 75
33				5 x 11 77	5 x 11 84	5 x 11 98	6.3 x 11 109	10 x 12.5 148	12.5 x 20 161	12.5 x 25 168	12.5 x 25 172	16 x 25 181	16 x 31.5 200	16 x 35.5 200	18 x 35.5 120
47			5 x 11 91	5 x 11 98	6.3 x 11 110	6.3 x 11 120	8 x 11.5 147	10 x 16 191	12.5 x 25 195	12.5 x 25 198	16 x 25 214	16 x 35.5 248	16 x 35.5 262	18 x 40 265	18 x 40 163
100	5 x 11 96	5 x 11 105	6.3 x 11 142	6.3 x 11 147	8 x 11 180	8 x 11.5 198	10 x 12.5 255	12.5 x 20 343	16 x 25 340	16 x 31.5 361	18 x 35.5 384	18 x 40 424			
220	6.3 x 11 168	6.3 x 11 179	8 x 11.5 231	8 x 11.5 252	10 x 11.5 329	10 x 16 382	10 x 20 460	16 x 25 623	18 x 35.5 596	18 x 40 615					
330	6.3 x 11 207	8 x 11.5 255	8 x 11.5 290	10 x 12.5 366	10 x 12.5 430	10 x 20 521	12.5 x 20 637	16 x 25 799							
470	8 x 11.5 280	8 x 11.5 316	10 x 12.5 385	10 x 16 510	10 x 16 550	12.5 x 20 685	12.5 x 25 815	16 x 31.5 1020							
1,000	10 x 12.5 483	10 x 16 570	10 x 20 714	12.5 x 20 854	12.5 x 20 1025	16 x 25 1250	16 x 31.5 1290								
2,200	12.5 x 20 868	12.5 x 20 927	12.5 x 25 1115	16 x 25 1280	16 x 25 1420	18 x 35.5 1760									
3,300	12.5 x 20 1025	12.5 x 25 1180	16 x 25 1370	16 x 31.5 1590	18 x 35.5 1850										
4,700	16 x 25 1390	16 x 25 1480	16 x 31.5 1740	18 x 35.5 1950		`									
6,800	16 x 25 1595	16 x 31.5 1795	18 x 35.5 2090												
10,000	16 x 31.5 1930	18 x 35.5 2210													
15,000	18 x 35.5 2290	Case size : ΦD x L(mm) Maximum permissible ripple current[mA(rms) at 105℃, 120㎐]													