

RS Series

105°C High ripple current, Low impedance.

◆ FEATURES

- Enabled high ripple current by a reduction of impedance at high frequency range.
- Load Life : 105°C 4000~6000hours.
- RoHS compliance



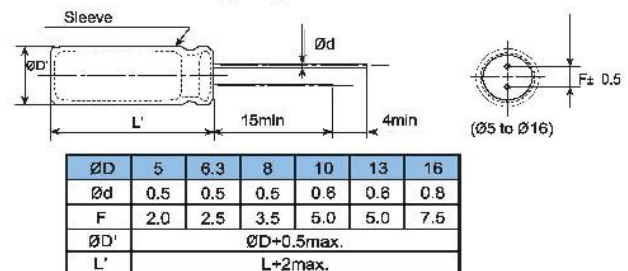
◆ SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-40~+105°C																											
Rated Voltage Range	6.3~100V.DC																											
Capacitance tolerance	±20% (20°C, 120Hz)																											
Leakage Current	I< 0.01CV or 3 μA whichever is greater. (After 2 minutes) I= Leakage Current (μA) C= Rated Capacitance (μF) V= Rated Voltage (V)																											
Dissipation Factor (tan δ)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table> <p>(20°C, 120Hz) When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF.</p>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
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Endurance	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> <td>Case Dia.</td> <td>Life time (hours)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>ØD≤ 6.3</td> <td>4000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>ØD= 8,10</td> <td>5000</td> </tr> <tr> <td></td> <td></td> <td>ØD≥12.5</td> <td>6000</td> </tr> </table>	Capacitance Change	Within ±25% of the initial value.	Case Dia.	Life time (hours)	Dissipation Factor	Not more than 200% of the specified value.	ØD≤ 6.3	4000	Leakage Current	Not more than the specified value.	ØD= 8,10	5000			ØD≥12.5	6000											
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Shelf Life	<p>The following 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.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than 200% of the specified value.</td> </tr> </table>	Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than 200% of the specified value.																					
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◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		120	1K	10K	100K
Coefficient	1 ~33μF	0.42	0.70	0.90	1.00
	39 ~270μF	0.50	0.73	0.92	1.00
	330 ~680μF	0.55	0.77	0.94	1.00
	820 ~1800μF	0.60	0.80	0.96	1.00
	2200 ~8200μF	0.70	0.85	0.98	1.00

◆ DIMENSIONS [mm]



RS Series

◆ STANDARD RATINGS

WV (V.DC)	Cap (μF)	Size ΦD×L(mm)	tan δ	Impedan ca (Ωmax) 20°C, 100 kHz	Ripple Current (mA rms/105°C, 100kHz)
6.3V	100	5×11	0.22	0.90	150
	150	5×11	0.22	0.58	210
	330	6.3×11	0.22	0.22	340
	680	8×11.5	0.22	0.13	640
	820	10×12.5	0.22	0.080	865
	1000	8×16	0.22	0.087	840
	1200	8×20	0.22	0.069	1050
	1200	10×16	0.22	0.060	1210
	1500	10×20	0.22	0.046	1400
	2200	10×20	0.24	0.042	1650
	2700	10×25	0.24	0.031	1910
	3300	13×20	0.26	0.035	1900
	3900	13×25	0.26	0.027	2230
	4700	13×30	0.28	0.024	2650
	5600	13×35	0.30	0.020	2880
5600	16×20	0.30	0.027	2530	
6800	16×25	0.32	0.021	2930	
8200	16×30	0.36	0.017	3450	
10V	100	5×11	0.19	0.58	210
	220	6.3×11	0.19	0.22	340
	470	8×11.5	0.19	0.13	640
	680	8×16	0.19	0.087	840
	1000	8×20	0.19	0.069	1050
	680	10×12.5	0.19	0.080	865
	1000	10×16	0.19	0.060	1210
	1200	10×20	0.19	0.046	1400
	1500	10×25	0.19	0.042	1650
	2200	13×20	0.21	0.035	1900
	3300	13×25	0.23	0.027	2230
	3900	13×30	0.23	0.024	2650
	4700	13×35	0.25	0.020	2880
	5600	16×25	0.27	0.021	2930
	6800	16×30	0.29	0.017	3450
16V	47	5×11	0.16	0.90	150
	56	5×11	0.16	0.58	210
	100	6.3×11	0.16	0.40	250
	120	6.3×11	0.16	0.22	340
	330	8×11.5	0.16	0.13	640
	470	8×16	0.16	0.087	840
	470	10×12.5	0.16	0.080	865
	680	8×20	0.16	0.069	1050
	680	10×16	0.16	0.060	1210
	1000	10×20	0.16	0.046	1400
	1200	10×25	0.16	0.042	1650
	1500	13×20	0.16	0.035	1900
	2200	13×25	0.18	0.027	2230
	2700	13×30	0.18	0.024	2650
	2700	16×20	0.18	0.027	2530
3300	13×35	0.20	0.020	2880	
3900	16×25	0.20	0.021	2930	
4700	16×30	0.22	0.017	3450	

WV (V.DC)	Cap (μF)	Size ΦD×L(mm)	tan δ	Impedan ca (Ωmax) 20°C, 100 kHz	Ripple Current (mA rms/105°C, 100kHz)
25V	33	5×11	0.14	0.90	150
	47	5×11	0.14	0.58	210
	100	6.3×11	0.14	0.22	340
	220	8×11.5	0.14	0.13	640
	330	8×16	0.14	0.087	840
	330	10×12.5	0.14	0.080	865
	470	8×20	0.14	0.069	1050
	470	10×16	0.14	0.060	1210
	680	10×20	0.14	0.046	1400
	820	10×25	0.14	0.042	1650
	1000	13×20	0.14	0.035	1900
	1500	13×25	0.14	0.027	2230
	1800	13×30	0.14	0.024	2650
	1800	16×20	0.14	0.027	2530
	2200	13×35	0.16	0.020	2880
2700	16×25	0.16	0.021	2930	
3300	16×30	0.18	0.017	3450	
35V	33	5×11	0.12	0.58	210
	56	6.3×11	0.12	0.22	340
	150	8×11.5	0.12	0.13	640
	220	8×16	0.12	0.087	840
	220	10×12.5	0.12	0.080	865
	270	8×20	0.12	0.069	1050
	330	10×16	0.12	0.060	1210
	470	10×20	0.12	0.046	1400
	560	10×20	0.12	0.042	1650
	680	10×25	0.12	0.035	1900
	680	13×20	0.12	0.027	2230
	1000	13×25	0.12	0.027	2230
	1200	13×30	0.12	0.024	2650
	1500	13×35	0.12	0.020	2880
	1800	16×25	0.12	0.021	2930
2200	16×30	0.14	0.017	3450	
50V	4.7	5×11	0.10	2.0	88
	10	5×11	0.10	1.5	100
	22	5×11	0.10	0.90	180
	33	6.3×11	0.10	0.40	250
	47	6.3×11	0.10	0.40	250
	100	8×11.5	0.10	0.17	555
	120	8×16	0.10	0.12	730
	150	10×12.5	0.10	0.12	760
	180	8×20	0.10	0.091	910
	220	10×16	0.10	0.084	1050
	270	10×20	0.10	0.060	1220
	330	10×25	0.10	0.055	1440
	470	13×20	0.10	0.045	1660
	560	13×25	0.10	0.034	1950
	680	13×30	0.10	0.030	2310
820	13×35	0.10	0.025	2510	
820	16×20	0.10	0.034	2210	
1000	16×25	0.10	0.025	2555	
1200	16×30	0.10	0.022	3010	

RS Series

◆ STANDARD RATINGS

WV (V.DC)	Cap (μ F)	Size Φ D×L(mm)	tan δ	Impedan ce (Ω max) 20°C, 100 kHz	Ripple Current (mAms/105°C,100kHz)
63V	10	5×11	0.09	2.3	87
	15	5×11	0.09	2.3	87
	22	6.3×11	0.09	1.3	140
	33	6.3×11	0.09	1.2	140
	47	8×11.5	0.09	0.65	210
	56	8×11.5	0.09	0.63	232
	82	8×16	0.09	0.45	300
	82	10×12.5	0.09	0.45	300
	100	8×16	0.09	0.35	300
	100	10×12.5	0.09	0.34	315
	120	10×16	0.09	0.31	357
	150	8×20	0.09	0.27	360
	180	10×20	0.09	0.21	470
	220	10×20	0.09	0.20	530
	270	13×20	0.09	0.16	700
	330	13×25	0.09	0.12	785
470	13×30	0.09	0.10	905	
470	16×20	0.09	0.091	1040	
560	16×25	0.09	0.073	1250	
680	16×30	0.09	0.071	1570	

WV (V.DC)	Cap (μ F)	Size Φ D×L(mm)	tan δ	Impedan ce (Ω max) 20°C, 100 kHz	Ripple Current (mAms/105°C,100kHz)
100V	1	5×11	0.08	4.5	20
	2.2	5×11	0.08	3.5	30
	3.3	5×11	0.08	3.0	40
	4.7	5×11	0.08	2.5	65
	6.8	5×11	0.08	2.3	65
	10	6.3×11	0.08	1.3	140
	15	6.3×11	0.08	1.2	140
	22	8×11.5	0.08	0.63	235
	39	8×16	0.08	0.45	300
	47	10×12.5	0.08	0.43	290
	56	8×20	0.08	0.33	360
	68	10×16	0.08	0.31	360
	82	10×20	0.08	0.21	470
	100	10×20	0.08	0.20	530
	120	13×20	0.08	0.16	690
	180	13×25	0.08	0.14	785
	220	13×30	0.08	0.10	905
	270	16×25	0.08	0.073	1250
	390	16×30	0.08	0.054	1570