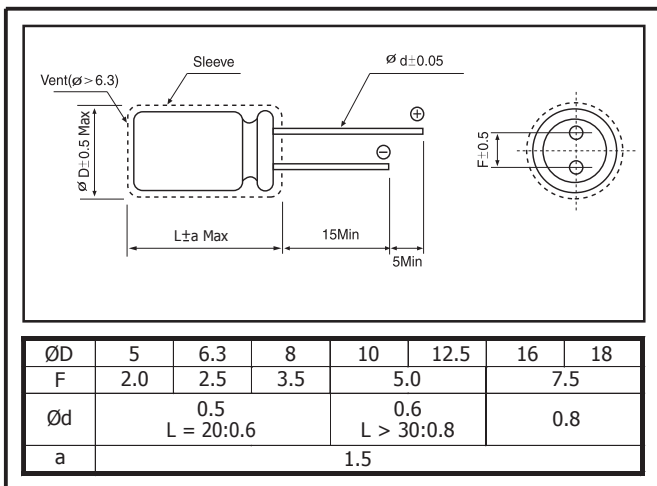


- Load Life of 2,000~3,000 Hours at 105°C
- Low ESR
- Suitable for Computer Motherboards that Require Very Low ESR at High Frequency

■ SPECIFICATIONS

Operating Temperature Range	-40~+105°C																										
Rated Voltage Range	6.3 ~ 50V																										
Capacitance Range	0.47 ~ 15000uF																										
Capacitance Tolerance	±20% (at 20°C, 120Hz)																										
Leakage Current	I ≤ 0.01 CV or 3 uA whichever is greater (at 20°C, after 2 minutes) I: Leakage Current (uA) C: Nominal Capacitance (uF) V: Rated Voltage (V)																										
Dissipation Factor (At 20°C, 120Hz)	<table border="1"> <tr> <th>Rated Voltage(V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <th>tan δ</th> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>						Rated Voltage(V)	6.3	10	16	25	35	50	tan δ	0.22	0.19	0.16	0.14	0.12	0.10							
	Rated Voltage(V)	6.3	10	16	25	35	50																				
tan δ	0.22	0.19	0.16	0.14	0.12	0.10																					
When nominal capacitance is over 1000uF, tan δ shall be added 0.02 to the listed value with every increase of 1000uF																											
Temperature Characteristics (Impedance Ratio at 120Hz)	<table border="1"> <tr> <th>W.V</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <th>Z(-25°C)/Z(+20°C)</th> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <th>Z(-40°C)/Z(+20°C)</th> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>						W.V	6.3	10	16	25	35	50	Z(-25°C)/Z(+20°C)	6	4	3	3	2	2	Z(-40°C)/Z(+20°C)	10	8	6	4	3	3
	W.V	6.3	10	16	25	35	50																				
Z(-25°C)/Z(+20°C)	6	4	3	3	2	2																					
Z(-40°C)/Z(+20°C)	10	8	6	4	3	3																					
Load Life (+105°C)	Time	3,000 hours after an application of DC bias voltage plus the rated ripple current. The peak voltage shall not exceed rated DC voltage				Diam.	Life																				
	Capacitance Change	Within ±20% of the initial value				Ø ≤ 8	2000Hrs																				
	Dissipation Factor	200% of the initial specified value or less																									
	Leakage Current	The specified value or less				Ø ≥ 10	3000Hrs																				
Shelf Life (+105°C)	After leaving the capacitor under on load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.																										

■ DIMENSION



■ MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Cap (uF) \ Freq(Hz)	120	1K	10K	100K
0.47 ~ 180	0.40	0.75	0.90	1.0
220 ~ 560	0.50	0.85	0.94	1.0
680 ~ 1800	0.60	0.87	0.95	1.0
2200 ~ 3900	0.75	0.90	0.95	1.0
4700 ~ 15000	0.85	0.95	0.98	1.0



RLP Series

STANDARD RATINGS

ØDxL (mm)	V	6.3				ØDxL (mm)	V	10			
		Cap	Impedance (Ω) 100KHz		Ripple			Cap	Impedance (Ω) 100KHz		Ripple
		uF	20°C	-10°C	mArms			uF	20°C	-10°C	mArms
5x11	150	0.60	1.20	180	5x11	100	0.60	1.20	180		
6.3x11	330	0.23	0.46	290	6.3x11	220	0.23	0.46	290		
8x12	470	0.13	0.26	555	8x12	470	0.13	0.26	555		
8x12	680	0.13	0.26	555	8x12	680	0.13	0.26	555		
8x12	820	0.13	0.26	555	8x16	680	0.11	0.22	730		
8x12	1000	0.13	0.26	555	8x16	1000	0.11	0.22	730		
8x16	1500	0.11	0.22	730	8x20	1000	0.074	0.148	995		
8x20	1200	0.074	0.148	995	10x13	680	0.095	0.190	755		
8x20	1500	0.074	0.148	995	10x16	1000	0.068	0.136	1050		
10x13	820	0.095	0.190	755	10x16	1200	0.068	0.136	1050		
10x16	1000	0.068	0.136	1050	10x20	1000	0.041	0.082	1220		
10x16	1200	0.068	0.136	1050	10x20	1500	0.041	0.082	1220		
10x16	1500	0.068	0.136	1050	10x25	2200	0.040	0.080	1440		
10x20	1500	0.041	0.082	1220	10x30	2200	0.038	0.076	1815		
10x20	2200	0.041	0.082	1220	12.5x20	2200	0.038	0.076	1655		
10x25	2700	0.040	0.080	1440	12.5x25	3300	0.032	0.064	1945		
12.5x20	3300	0.038	0.076	1655	12.5x30	3900	0.029	0.058	2310		
12.5x25	3900	0.032	0.064	1945	12.5x35	4700	0.027	0.054	2400		
12.5x30	4700	0.029	0.058	2310	16x25	4700	0.022	0.044	2555		
16x20	5600	0.029	0.058	2205	16x25	5600	0.022	0.044	2555		
16x25	6800	0.022	0.044	2555	16x32	6800	0.018	0.036	3010		
16x32	8200	0.018	0.036	3010	16x36	8200	0.016	0.032	3150		
16x32	10000	0.018	0.036	3010	18x36	10000	0.015	0.030	3680		
18x32	12000	0.016	0.032	3635	18x40	15000	0.014	0.028	3800		
18x36	15000	0.015	0.030	3680							

ØDxL (mm)	V	16				ØDxL (mm)	V	25			
		Cap	Impedance (Ω) 100KHz		Ripple			Cap	Impedance (Ω) 100KHz		Ripple
		uF	20°C	-10°C	mArms			uF	20°C	-10°C	mArms
5x11	56	0.60	1.20	180	5x11	47	0.60	1.20	180		
6.3x11	120	0.23	0.46	290	6.3x11	100	0.23	0.46	290		
8x12	330	0.13	0.26	555	8x12	220	0.13	0.26	555		
8x12	470	0.13	0.26	555	8x16	330	0.11	0.22	730		
8x16	470	0.11	0.22	730	8x20	470	0.074	0.148	995		
8x20	680	0.074	0.148	995	8x20	330	0.074	0.148	995		
10x13	220	0.095	0.190	755	10x13	470	0.095	0.190	755		
10x13	330	0.095	0.190	755	10x13	330	0.095	0.190	755		
10x13	470	0.095	0.190	755	10x16	330	0.068	0.136	1050		
8x20	470	0.074	0.148	995	10x16	470	0.068	0.136	1050		
10x16	680	0.068	0.136	1050	10x20	680	0.041	0.082	1220		
10x16	1000	0.068	0.136	1050	10x20	820	0.041	0.082	1220		
10x20	1500	0.041	0.082	1220	10x30	1000	0.038	0.076	1815		
12.5x25	2200	0.032	0.064	1945	12.5x20	1000	0.038	0.076	1655		
12.5x30	2700	0.029	0.058	2310	12.5x25	1500	0.032	0.064	1945		
16x25	3300	0.022	0.044	2555	16x25	2200	0.022	0.044	2555		
16x25	3900	0.022	0.044	2555	16x25	2700	0.022	0.044	2555		
16x32	4700	0.018	0.036	3010	16x32	3300	0.018	0.036	3010		
16x36	5600	0.016	0.032	3150	16x36	3900	0.016	0.032	3150		
18x36	6800	0.015	0.030	3680	18x36	4700	0.015	0.030	3680		
18x36	8200	0.015	0.030	3680	18x40	6800	0.014	0.028	3800		
18x40	10000	0.014	0.028	3800							

Ripple Current: mA(rms) at 100KHz, 105°C

∅DxL (mm)	V	35			∅DxL (mm)	V	50				
		Cap uF	Impedance (Ω) 100KHz				Ripple mArms	Cap uF	Impedance (Ω) 100KHz		Ripple mArms
			20°C	-10°C					20°C	-10°C	
5x11	33	0.60	1.20	180	5x11	0.47	5.00	10.0	25		
6.3x11	56	0.23	0.46	290	5x11	1	3.50	7.00	40		
8x12	100	0.13	0.26	555	5x11	2.2	3.00	6.00	55		
8x16	220	0.11	0.22	730	5x11	3.3	2.60	5.20	65		
8x20	270	0.074	0.148	995	5x11	4.7	2.30	4.60	90		
10x16	220	0.068	0.136	1050	5x11	10	1.40	2.80	120		
10x16	330	0.068	0.136	1050	5x11	22	1.20	2.40	170		
10x20	470	0.041	0.082	1220	6.3x11	47	0.43	0.86	300		
10x25	560	0.040	0.080	1440	8x12	100	0.24	0.48	485		
10x30	680	0.038	0.076	1815	8x16	120	0.18	0.36	635		
12.5x20	680	0.038	0.076	1655	10x13	150	0.16	0.32	615		
12.5x25	1000	0.032	0.064	1945	10x16	220	0.13	0.26	850		
12.5x30	1200	0.029	0.058	2310	10x20	330	0.090	0.18	1030		
16x25	1500	0.022	0.044	2555	12.5x20	470	0.060	0.12	1500		
16x25	1800	0.022	0.044	2555	12.5x25	560	0.050	0.10	1832		
16x32	2200	0.018	0.036	3010	16x20	680	0.048	0.096	1835		
16x36	2700	0.016	0.032	3150	16x25	1000	0.034	0.068	2235		
18x36	3300	0.015	0.030	3680	16x32	1200	0.028	0.056	2700		
18x40	4700	0.014	0.028	3800	16x36	1500	0.025	0.050	2790		
					18x32	1800	0.025	0.050	3000		
					18x36	2200	0.023	0.046	3100		

Ripple Current: mA(rms) at 100KHz, 105°C