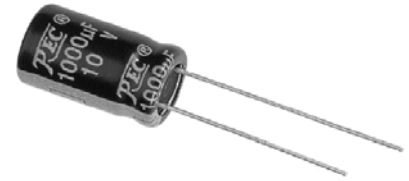
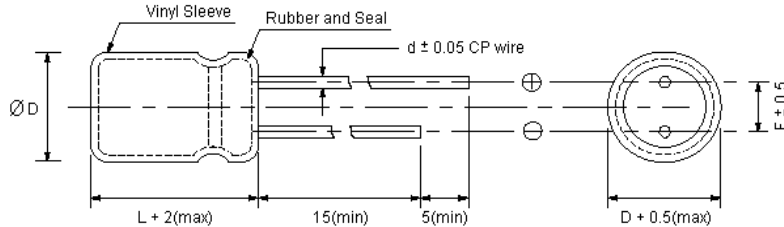


■ **FEATURES**

- ◆ Smaller case sizes than LZ series
- ◆ Lower impedance at high frequency
- ◆ Applications for output of switching power supplies and mother board

■ **OUTLINE**



	mm							
D	5	6.3	8	10	13	16	18	
F	2.0	2.5	3.5	5.0		7.5		
d		0.5		0.6		0.8		

■ **SPECIFICATIONS**

Items	Characteristics							
Capacitance Tolerance (120Hz, 25°C)	± 20% (M)							
Rated Working Voltage Range	6.3 ~ 63Vdc							
Operation Temperature	-55°C ~ +105°C							
Leakage Current (25°C)	(After 3 minutes applying the DC working voltage)							
	$I \leq 0.01CV$ or 3 ( $\mu A$ )							
	◆ I : Leakage Current ( $\mu A$ )		◆ C : Rated Capacitance ( $\mu F$ )			◆ V : Working Voltage (V)		
Surge Voltage (25°C)	W.V.	6.3	10	16	25	35	50	63
	S.V.	8	13	20	32	44	63	79
Dissipation Factor (120Hz, 25°C)	W.V.	6.3	10	16	25	35	50	63
	$\tan \delta$	0.26	0.22	0.18	0.16	0.14	0.12	0.10
Temperature Characteristics	◆ For capacitance exceeding 1000 $\mu F$ , add 0.02 per increment of 1000 $\mu F$							
	W.V.	6.3	10	16	25	35	50	63
	- 55°C / + 25°C	6	5	4	4	3	5	7
Load Test	◆ Impedance ratio at 120Hz							
	After 1000 hours application of WV at +105°C, the capacitor shall meet the following limits: (2000 hours for 10 $\phi$ and larger)							
	Capacitance Change	$\leq \pm 25\%$ of initial value						
	$\tan \delta$	$\leq 200\%$ of initial specified value						
Leakage Current	$\leq$ initial specified value							

■ **RIPPLE CURRENT COEFFICIENTS**

Temp (°C)	45	65	85	105
Multiplier	2.40	2.15	1.70	1.00

uF \ Hz	60(50)	120	1K	10K	100K
	4.7 ~ 33	0.35	0.45	0.75	0.90
39 ~ 330	0.60	0.70	0.85	0.95	1.00
390 ~ 1000	0.65	0.75	0.90	0.98	1.00
1000 ~ 10000	0.75	0.80	0.95	1.00	1.00



■ **DIMENSIONS**

**D x L (mm)**

uF \ WV	D x L (mm)						
	6.3	10	16	25	35	50	63
4.7					]	5 x 11	5 x 11
10					]	5 x 11	5 x 11
22					]	5 x 11	5 x 11
33					]	5 x 11	6.3 x 11
47				]	5 x 11	6.3 x 11	8 x 12
68			]	5 x 11	6.3 x 12	8 x 12	8 x 12
100		]	5 x 11	6.3 x 11	6.3 x 12	8 x 12	10 x 12
150	[	5 x 11	6.3 x 11	8 x 12	8 x 12	8 x 14	10 x 16
220	5 x 11	6.3 x 12	6.3 x 12	8 x 12	8 x 12	10 x 12	10 x 20
330	6.3 x 12	6.3 x 12	8 x 12	8 x 14	10 x 12	10 x 16	13 x 20
470	6.3 x 12	8 x 12	8 x 12	10 x 12	10 x 16	10 x 20	13 x 25
560	8 x 12	8 x 12	8 x 14	10 x 15	10 x 20	13 x 20	13 x 25
680	8 x 14	8 x 14	10 x 12	10 x 16	10 x 20	13 x 20	13 x 25
1000	8 x 14	10 x 12	10 x 16	10 x 20	13 x 20	13 x 25	16 x 26
1200	10 x 12	10 x 15	10 x 16	10 x 25	13 x 20	16 x 26	16 x 31
1500	10 x 15	10 x 16	10 x 20	13 x 20	13 x 25	16 x 26	16 x 35
2200	10 x 16	10 x 20	13 x 20	13 x 25	16 x 26	16 x 35	18 x 41
3300	10 x 20	13 x 20	13 x 25	16 x 26	16 x 35	18 x 41	
4700	13 x 20	13 x 25	16 x 25	16 x 31	18 x 35		
6800	13 x 25	16 x 26	16 x 31	18 x 35			
10000	16 x 25	16 x 31	18 x 35				

**RC: mA (rms) at 100KHz 105°C**

**Imp: mΩ (ohm) at 100KHz 25°C**

■ **RIPPLE CURRENT & IMPEDANCE**

uF \ WV	Item	RC & Imp													
		6.3		10		16		25		35		50		63	
		RC	Imp	RC	Imp	RC	Imp	RC	Imp	RC	Imp	RC	Imp	RC	Imp
4.7										]	90	2500	90	2500	
10										]	110	2000	110	2500	
22										]	140	1350	140	2500	
33										]	140	1350	205	1200	
47								]	180	650	220	740	205	1200	
68						]	180	650	290	280	310	430	310	430	
100				]	180	650	290	280	295	250	320	420	325	450	
150		]	180	650	290	280	510	180	510	180	380	350	40	300	
220	176	650	280	280	295	250	545	150	550	150	520	290	520	210	
330	290	250	290	250	544	150	545	150	760	90	670	210	730	160	
470	310	230	540	160	560	145	745	90	1050	68	820	150	855	140	
680	350	210	575	150	640	130	820	75	1150	54	884	135	920	133	
1000	403	195	621	130	750	85	925	66	1390	45	970	106	1010	108	
1200	545	150	745	90	1030	68	1200	52	1660	39	1200	87	1240	90	
1500	625	100	805	80	1130	64	1310	44	1740	35	1290	70	1410	68	
2200	745	85	1050	68	1280	52	1500	40	1860	29	1430	56	1680	55	
3300	1030	68	1200	52	1630	39	1930	30	2150	22	1850	40	2300	50	
4700	1195	52	1625	40	1920	30	2130	22	2650	16	2200	30			
6800	1620	39	1915	30	2120	22	2360	18	2800	15					
10000	1910	30	2110	22	2350	18	2760	15							
15000	2100	22	2340	18	2750	15									