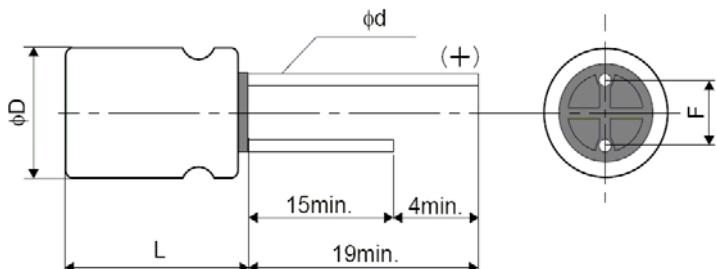


Features

- Ultra low ESR level and excellent performance at high frequency through low profile.
- Ideal capacitor for digital and high frequency devices.
- High heat resistance and high reliability.

Characteristics

Voltage Range	2.5 ~50VDC				
Capacitance Range	6.8uF ~ 1500uF				
Temperature Range	-55 ~ +105°C				
Capacitance Tolerance	M: $\pm 20\%$, K: $\pm 10\%$ (at 20°C , 120Hz)				
Leakage Current	Capacitance(μF) x Rated Voltage(Vdc) After 2minutes, see standard rating				
Dissipation Factor (tan δ) 20°C 120Hz	See standard rating				
ESR (at 100K~300K Hz, 20°C)	See standard rating				
Endurance (Rated Voltage at 105°C 2000 h, restored to 20°C)	Appearance	\leq No significant damage			
	Capacitance Change (μF)	Within $\pm 20\%$ of initial measured value			
	Dissipation Factor (tan δ)	$\leq 150\%$ of an initial specified value			
	ESR (mΩ)	$\leq 150\%$ of an initial specified value			
	Leakage Current (μA)	\leq Initial specified value			
Moisture Resistance (Test at 60°C, 90~95RH for 1000hrs, L.C. should be tested after voltage treatment)	Capacitance Change (μF)	Within $\pm 20\%$ of initial measured value			
	Dissipation Factor (tan δ)	$\leq 150\%$ of an initial specified value			
	ESR (mΩ)	$\leq 150\%$ of an initial specified value			
	Leakage Current (μA)	\leq Initial specified value			
Resistance to Soldering Heat	Capacitance Change (μF)	Within $\pm 10\%$ of initial measured value			
	Dissipation Factor (tan δ)	$\leq 130\%$ of an initial specified value			
	ESR (mΩ)	$\leq 130\%$ of an initial specified value			
	Leakage Current (μA)	\leq Initial specified value			
Low Temperature Characteristics	Impedance Ratio (at 100kHz): $Z_{-25}/Z_{+20} : 1.15$, $Z_{-55}/Z_{+20} : 1.25$				
Surge Voltage (V)	Rated Voltage x 1.15 (at 105°C)				



Drawing

ϕD	6.3		8.0	10		
L	5.5	6.5	11	12	10	
F	2.5			3.5	5.0	
ϕd	0.45				0.6	

Frequency coefficient for ripple current

Frequency	120Hz \leq f < 1KHz	1KHz \leq f < 10KHz	10KHz \leq f < 100KHz	100KHz \leq f < 500KHz
Coefficient	0.05	0.3	0.7	1.0

Dimensions, Maximum Ripple Current & Impedance

W.V.(V)	Capacitance (μ F)	Size ϕ DxL(mm)	Tan δ (120Hz,200C)	L.C. (μ A)	E.S.R. (100k-300kHz,m Ω ,2 $^{\circ}$ C MAX)	Rated R.C 105 $^{\circ}$ C (mAmps at 100kHz,)
2.5(0E)	220	6.3X5.5	0.12	110	28	2390
	390	6.3X11	0.12	195	18	3160
	680	8X12	0.18	340	10	5230
	1000	10X10	0.18	500	14	4700
	1500	10X12.5	0.18	750	8	5500
4(0G)	150	6.3X5.5	0.12	120	40	1810
	270	6.3X11	0.12	216	15	3200
	560	8X12	0.18	448	10	5230
	1200	10X12.5	0.18	960	8	5500
6.3(0J)	100	6.3X5.5	0.12	126	40	1810
	220	6.3X11	0.12	277	18	3160
	330	6.3X6.5	0.12	416	28	2390
	390	8X12	0.15	491	12	4770
	470	8X12	0.15	592	12	4770
	820	10X12.5	0.15	1033	10	5500
10(1A)	100	6.3X6.5	0.12	200	45	1700
	220	10X10	0.15	440	17	3950
	330	8X12	0.12	660	14	4420
	560	10X12.5	0.12	1360	12	5300
16(1C)	47	6.3X5.5	0.10	150	50	1650
	100	6.3X11	0.10	320	22	2820
	180	8X12	0.12	576	16	4360
	330	10X12.5	0.12	1056	16	4360
20(1D)	22	6.3X5.5	0.10	88	60	1450
	56	6.3X11	0.10	224	25	2650
	100	8X12	0.15	400	24	3320
	100	10X10	0.15	400	24	3320
	150	10X12.5	0.15	600	20	4320
25V(1E)	6.8	6.3X5.5	0.10	170	80	1200
	33	8X12	0.12	165	24	3320
	56	8X12	0.12	280	24	3320
		10X12.5	0.12	280	20	4320
	68	8X12	0.12	340	24	3320
35V(1V)	100	10X12.5	0.12	500	20	4320
	22	8X12	0.12	154	50	2300
	39	8X12	0.12	273	31	2100
	47	10X12.5	0.12	329	30	3650
50V(1H)	68	10X12.5	0.12	476	28	2700
	27	8X12	0.12	270	36	2000
	47	10X12.5	0.12	470	31	2500