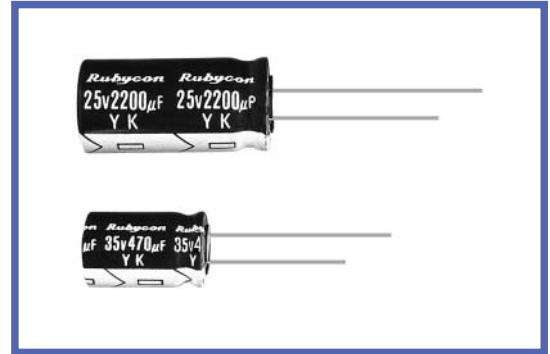


YK SERIES

85°C Standard

◆ FEATURES

- Load life : 85°C 2000 hours.
- RoHS compliance.



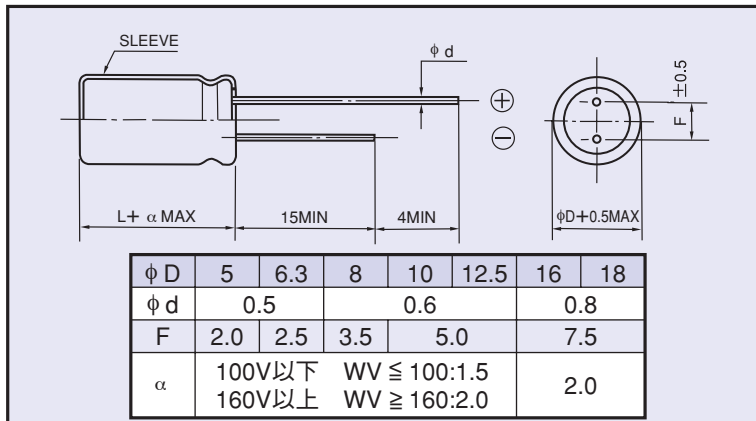
◆ SPECIFICATIONS

Items	Characteristics		
Category Temperature Range	-40~+85°C	-25~+85°C	
Rated Voltage Range	6.3~250V.DC	350~450V.DC	
Capacitance Tolerance	±20% (20°C, 120Hz)		
Leakage Current(MAX)	6.3~100V.DC	160~450V.DC	
	I=0.01CV or 3 µA whichever is greater. (After 2 minutes application of rated voltage)	CV ≤ 1000	CV > 1000
		I=0.1CV+40 µA (1minute) I=0.03CV+15 µA (5minutes)	I=0.04CV+100 µA (1minute) I=0.02CV+25 µA (5minutes)
I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V)			
(tanδ) Dissipation Factor(MAX)	Rated Voltage (V)	6.3 10 16 25 35 50 63 100 160 200 250 350 400 450 (20°C, 120Hz)	
	tan δ	0.26 0.22 0.18 0.16 0.14 0.12 0.10 0.08 0.20 0.20 0.20 0.20 0.20 0.20	
When rated capacitance is over 1000 µF, tan δ shall be added 0.02 to the listed value with increase of every 1000 µF.			
Endurance	After applying rated voltage with rated ripple current for 2000hrs at 85°C, the capacitors shall meet the following requirements.		
	Capacitance Change	Within ±25% of the initial value.	
	Dissipation Factor	Not more than 200% of the specified value.	
Leakage Current	Not more than the specified value.		
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (V)	6.3 10 16 25 35 50 63 100 160 200 250 350 400 450 (120Hz)	
	Z(-25°C)/Z(20°C)	4 3 2 2 2 2 2 2 3 3 3 5 5 7	
	Z(-40°C)/Z(20°C)	8 6 4 4 3 3 3 3 - - - - -	

◆ DIMENSIONS

(mm)

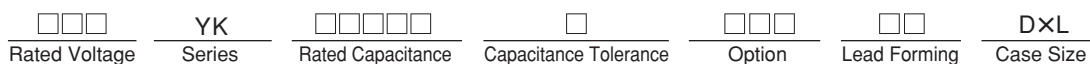
◆ MULTIPLIER FOR RIPPLE CURRENT



Frequency coefficient

Frequency (Hz)	60(50)	120	500	1k	10k ≤
0.1~1 µF	0.50	1.00	1.20	1.30	1.50
2.2~4.7 µF	0.65	1.00	1.20	1.30	1.50
10~47 µF	0.80	1.00	1.20	1.30	1.50
100~1000 µF	0.80	1.00	1.10	1.15	1.20
2200~22000 µF	0.80	1.00	1.05	1.10	1.15

◆ PART NUMBER



◆STANDARD SIZE

 Size ϕ D \times L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

WV (V.DC) Cap(μ F)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											5 \times 11	1.1		
0.15											5 \times 11	1.5		
0.22											5 \times 11	2.5		
0.33											5 \times 11	4		
0.47											5 \times 11	7		
1											5 \times 11	13		
2.2											5 \times 11	23		
3.3											5 \times 11	35		
4.7											5 \times 11	41		
10											5 \times 11	60	5 \times 11	70
22									5 \times 11	90	5 \times 11	95	5 \times 11	110
33							5 \times 11	98	5 \times 11	110	5 \times 11	130	6.3 \times 11	140
47					5 \times 11	115	5 \times 11	120	5 \times 11	135	6.3 \times 11	160	6.3 \times 11	190
100	5 \times 11	135	5 \times 11	140	5 \times 11	175	5 \times 11	185	6.3 \times 11	215	8 \times 11.5	270	8 \times 11.5	290
220	5 \times 11	220	5 \times 11	230	6.3 \times 11	280	6.3 \times 11	310	8 \times 11.5	370	10 \times 12.5	435	10 \times 16	490
330	6.3 \times 11	280	6.3 \times 11	310	8 \times 11.5	380	8 \times 11.5	410	10 \times 12.5	500	10 \times 16	590	10 \times 20	680
470	6.3 \times 11	360	6.3 \times 11	400	8 \times 11.5	460	10 \times 12.5	550	10 \times 16	680	10 \times 20	760	12.5 \times 20	880
1000	8 \times 11.5	590	10 \times 12.5	660	10 \times 16	800	10 \times 20	970	12.5 \times 20	1180	12.5 \times 25	1350	16 \times 25	1350
2200	10 \times 16	920	10 \times 20	1090	12.5 \times 20	1320	12.5 \times 25	1570	16 \times 25	1810	16 \times 35.5	2110	18 \times 35.5	2300
3300	10 \times 20	1200	12.5 \times 20	1440	12.5 \times 25	1670	16 \times 25	2000	16 \times 35.5	2300	18 \times 35.5	2540		
4700	12.5 \times 20	1550	12.5 \times 25	1800	16 \times 25	2120	16 \times 31.5	2440	18 \times 35.5	2740				
6800	12.5 \times 25	1920	16 \times 25	2250	16 \times 31.5	2540	18 \times 35.5	2900						
10000	16 \times 25	2370	16 \times 35.5	2710	18 \times 35.5	2950								
15000	16 \times 35.5	2880	18 \times 35.5	3110										
22000	18 \times 40	3350												

WV (V.DC) Cap(μ F)	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	5 \times 11	8					6.3 \times 11	8	6.3 \times 11	8	6.3 \times 11	8	8 \times 11.5	8
1	5 \times 11	16					6.3 \times 11	16	6.3 \times 11	16	6.3 \times 11	16	8 \times 11.5	16
2.2	5 \times 11	35					6.3 \times 11	30	8 \times 11.5	31	10 \times 12.5	31	10 \times 12.5	29
3.3	5 \times 11	45			6.3 \times 11	36	8 \times 11.5	45	10 \times 12.5	45	10 \times 12.5	43	10 \times 16	40
4.7	5 \times 11	50	6.3 \times 11	45	8 \times 11.5	51	8 \times 11.5	54	10 \times 12.5	56	10 \times 16	56	10 \times 20	56
10	5 \times 11	75	8 \times 11.5	83	10 \times 12.5	85	10 \times 16	90	10 \times 20	100	12.5 \times 20	90	12.5 \times 20	84
22	6.3 \times 11	135	10 \times 16	133	10 \times 20	135	12.5 \times 20	150	12.5 \times 25	185	12.5 \times 25	180	16 \times 25	140
33	8 \times 11.5	185	10 \times 20	180	12.5 \times 20	205	12.5 \times 20	205	16 \times 25	230	16 \times 25	230	16 \times 31.5	180
47	10 \times 12.5	235	12.5 \times 20	230	12.5 \times 20	230	12.5 \times 25	260	16 \times 31.5	280	16 \times 31.5	280	16 \times 35.5	220
100	10 \times 20	380	12.5 \times 25	385	16 \times 25	400	16 \times 31.5	450	18 \times 40	420	18 \times 40	420		
220	12.5 \times 25	629	16 \times 35.5	645	18 \times 35.5	680								
330	12.5 \times 25	760	18 \times 35.5	760										
470	16 \times 25	950												
1000	18 \times 40	1350												