



KY Series

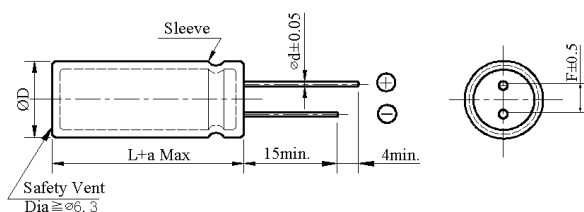
- Downsize and high ripple current
- Load life: 12,000 to 15,000 hours at 105°C
- For electronic ballast circuits and other long life applications



◆ SPECIFICATIONS

Item	Performance Characteristics			
Category Temperature Range	-25~+105°C			
Working Voltage Range	160 ~ 450Vdc			
Capacitance Range	6.8 ~ 470 µF			
Capacitance Tolerance	±20% (at 25°C and 120Hz)			
Dissipation Factor (tanδ) (at 25°C, 120Hz)	Rated Voltage (V)	160 ~ 250	400 ~ 450	
	tanδ(Max)	0.20	0.24	
Leakage Current	$I=0.03CV + 10\mu A$ I : Leakage current (µA) C : Rated capacitance (µF) V : Rated voltage (V) Impress the rated voltage for 2 minutes			
Low Temperature Characteristics Impedance Ratio(MAX)	Rated voltage (V)	160~250	400	420 ~ 450
	Z(-25°C)/Z(+20°C)	4	4	6
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 15,000 (12,000 hours for Φ 10) hours at 105°C.			
Shelf Life	Capacitance change	≅ ±20% of the initial value		
	Dissipation factor(tanδ)	≅ 200% of the specified value		
	Leakage current	≅ specified value		
Others	The following requirements shall be satisfied when the capacitor are restored to 25°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.			
	Conforms to JIS-C-5101-4 (1998), characteristic W			

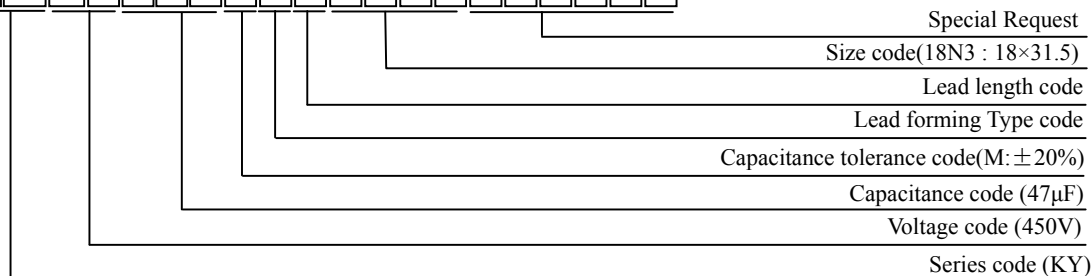
◆ DIMENSIONS (mm)



ΦD	10	12.5 L < 35	12.5 L ≥ 35	16	18
ΦD	ΦD + 0.5 Max				
Φd	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0		7.5	7.5
a	L + 1.5 Max	≅ 35 L + 1.5 Max ≅ 40 L + 2.0 Max		L + 1.5 Max	

◆ PART NUMBER SYSTEM (Example : 450V 47µF)

K	Y	2	W	4	7	0	M	N	N	1	8	N	3						
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◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz

uF \ Vdc	160		200		250	
	ΦD × L	RC	ΦD × L	RC	ΦD × L	RC
10	10×16	160	10×16	160	10×20	170
22	10×20	225	10×20	225	10×20	230
33	10×20	280	12.5×20	340	10×25	330
47	10×25	350	12.5×25	425	12.5×25	425
68	12.5×20	500	12.5×30	510	16×25	550
82	12.5×25	540	16×20	550	16×31.5	580
100	12.5×30	650	16×25	680	18×31.5	740
150	16×25	800	16×31.5	880	18×35.5	905
220	16×31.5	1075	18×35.5	1100	18×40	1195
330	18×35.5	1450	18×45	1500		
470	18×45	1540	18×50	1580		

uF \ Vdc	400		420		450	
	ΦD × L	ΦD × L	ΦD × L	RC	ΦD × L	RC
6.8	10×16	150	10×16	150	10×20	150
10	10×20	175	10×20	190	12.5×20	215
15	12.5×20	255	12.5×20	265	12.5×25	275
22	12.5×25	300	12.5×25	310	16×20	320
33	16×20	395	16×20	420	16×25	460
47	18×20	490	18×25	510	18×31.5	550
56	18×25	560	18×25	590	18×31.5	630
68	18×31.5	650	18×31.5	685	18×35.5	725
82	18×31.5	680	18×35.5	730	18×40	810
100	18×35.5	805	18×40	835	18×50	900
120	18×40	900	18×45	940		
150	18×45	1000				

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap(uF)	Frequency (Hz)			
	120	1K	10K	100K
<100	1.00	1.75	2.25	2.50
≥100	1.00	1.67	2.05	2.25