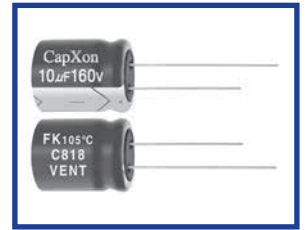


## FK Series Long Life for ballast 105°C

### Features

- ◆ Specially designed for electronic ballast and energy-save lamp
- ◆ Endurance 6000~8000 hrs at 105°C
- ◆ Safety vent construction design.
- ◆ RoHS Compliant
- ◆ AEC-Q200 qualified



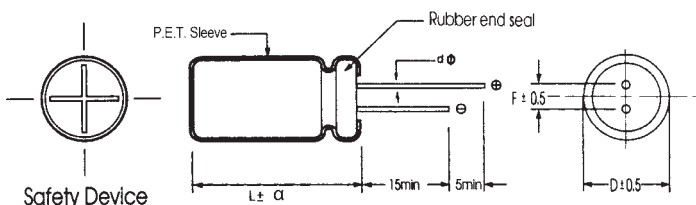
### Specifications

Item	Performance Characteristics													
Operating Temperature Range	-25~+105°C													
Rated Voltage Range	160~500 VDC													
Capacitance Range	1 to 330 µF													
Capacitance Tolerance	±20%(120Hz,+20°C)													
Leakage Current (+20°C,max.)	I ≤ 0.04 CV + 100 (µA) After 1 minute with rated working voltage applied.													
Dissipation Factor (tan δ , at 20°C , 120Hz)	Working Voltage(VDC)	160	200	250	350	400	450	500						
	D.F.(%)max.	10	10	10	12	12	12	20						
Low Temperature Characteristics (at 120Hz)	Impedance ratio max													
	Working voltage(VDC)	160	200	250	350	400	450	500						
	Z-25°C / Z+20°C	3	3	3	6	6	6	6						
Endurance	Test condition Duration time :As right Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change : within ±20% of the initial measured value Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value						<table border="1"> <thead> <tr> <th>D φ</th> <th>Life (hours)</th> </tr> </thead> <tbody> <tr> <td>8 φ</td> <td>6000</td> </tr> <tr> <td>≥ 10 φ</td> <td>8000</td> </tr> </tbody> </table>		D φ	Life (hours)	8 φ	6000	≥ 10 φ	8000
	D φ	Life (hours)												
8 φ	6000													
≥ 10 φ	8000													
Shelf Life	Test condition Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None  After test requirement at +20°C:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.													

### Multiplier for Ripple Current vs. Frequency

Frequency (Hz)	120	1K	10K	≥10K
Multiplier	1.0	1.5	1.70	1.90

### Diagram of Dimensions:(unit:mm)



D φ	8	10	13	16	18
F	3.5	5.0	5.0	7.5	7.5
d φ	L < 20	0.6		0.8	
	L ≥ 20	0.6		0.8	
α	D < 18		D = 18		D > 18
	1.5		L < 35.5	L ≥ 35.5	

## Case Size

φ DxL(mm)

WV Cap(μF)	160		200		250		350		400		450		500	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.0							8x11.5	75	8x11.5	65	8x11.5	85		
2.2					8x11.5	70	8x11.5	80	8x11.5	85	10x12.5	90		
3.3					8x11.5	75	10x12.5	85	10x12.5	95	10x16	105		
4.7			8x11.5	80	10x12.5	100	10x12.5	100	10x16	110	10x16	115	13x20	82
6.8			8x11.5	100	10x12.5	105	10x16	110	10x16	115	10x20	125	13x20	96
10	10x12.5	105	10x12.5	115	10x16	130	10x20	140	10x20	160	13x20	175	13x25	130
22	10x16	170	10x16	170	10x20	190	13x20	245	13x20	230	16x21	275	16x25	170
33	10x20	235	10x20	245	13x20	305	13x25	340	13x25	310	16x25	370	16x31.5	210
47	13x20	285	13x20	370	13x25	370	16x25	410	16x31.5	445	18x25	455	16x35.5	360
47													18x31.5	360
56													16x41	420
56													18x31.5	400
68	13x20	445	13x25	425	16x25	495	18x25	530	18x31.5	550	18x31.5	600	16x45	480
68													18x35.5	460
68													18x41	490
82													18x41	540
100	16x21	550	16x25	600	16x31.5	645	18x35.5	665	18x41	750			18x45	630
100													20x41	660
120													22x46	800
150	16x25	655	16x31.5	825	18x31.5	775								
220	18x31.5	875	18x31.5	1000										
330	18x35.5	1190												

Ripple Current ( mA, rms ) at 105°C 120Hz