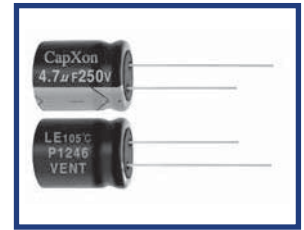


LE Series 105°C 10000~15000 hours

Features

- ◆ Ultra Long life
- ◆ For LED lighting
- ◆ ROHS compliant

FL → long life → LE



Specifications

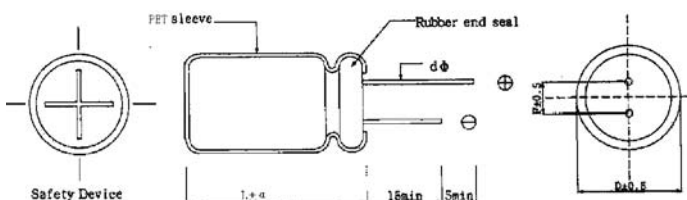
Item	Performance Characteristics	
Operating Temperature Range	-25~+105°C	
Rated Voltage Range	160~450 VDC	
Capacitance Range	1 to 68 µF	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current (+20°C,max.)	(CV ≤ 1000)	(CV > 1000)
	1 ≤ 0.1CV+40(µA)	1 ≤ 0.04CV+100(µA)
After 1minutewith ratedworking voltage applied. C:: ratedCapacitance (µF) , V: working voltage(V)		
Dissipation Factor (tan δ , at 20°C , 120Hz)	Less than the value under table	
	Cap(µF) / W.v.(V)	160~450
tan δ	24%	
Low Temperature Characteristics (at 120Hz)	Impedance ratio max	
	Working voltage(V)	≥ 250 ≥ 250
Z-25°C / Z+20°C	3 6	
Endurance	Test condition	
	Duration time :As right	6.3X11,8X9,10X9
Ambient temperature :+105°C	8X11.5,10X12.5	12000hours
Applied voltage :Rated DC working voltage	10X16 or more	15000hours
After test requirement at +20°C		
Capacitance change	: Within ±30% of the initial measured value	
Dissipation factor	: Not more than 300% of the initial specified value	
Leakage current	: Not more than The initial specified value	
Shelf Life	Test condition	
	Duration time :1000 Hrs	
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.		

Radial

Multiplier for Ripple Current vs. Frequency

Frequency(Hz)		120	1K	10K	100K
Coefficient	1~5.6 µF	1.0	1.6	1.8	2.0
	6.8~18 µF	1.0	1.5	1.7	1.9
	22~33 µF	1.0	1.4	1.6	1.8

Diagram of Dimensions:(unit:mm)



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

α	D < 18	D = 18		D > 18
		L < 35.5	L ≥ 35.5	
	1.5	1.5	2.0	2.0

Case Size

φ DxD(mm)

Cap(μ F) \ WV	160		200		250	
	Size	Ripple	Size	Ripple	Size	Ripple
1						
1.2						
1.5						
1.8					6.3x11	33
2.2			6.3x11	36	6.3x11	36
3.3			6.3x11	42	6.3x11	42
3.9						
4.7			6.3x11	49	8x9	53
5.6	6.3x11	52	8x9	56	8x11.5	62
6.8			8x9	62	8x11.5	68
8.2			8x9	66	10x9	76
10	8x9	70	8x11.5	80	10x12.5	90
12			10x9	88	10x12.5	97
15	8x11.5	92				
	10x9	95				
18			10x12.5	113	10x16	127
22	10x12.5	121				
27			10x16	149		
33	10x16	158				

Cap(μ F) \ WV	400		450	
	Size	Ripple	Size	Ripple
1	6.3x11	24		
1.2	8x9	28		
1.5	8x9	30		
1.8	8x9	33		
2.2	8x9	36		
	8x11.5	40		
2.7	8x11.5	43		
3.3	8x11.5	47		
	10x9	48		
3.9	10x12.5	57		
4.7	10x12.5	61	10x16	54
			10x20	66
6.8	10x16	85	10x20	84
8.2			10x20	84
10			13x20	135
15			13x25	180
			13x25	240
22			16x21	292
			16x25	312
33			18x21	312
			18x25	480
47			18x25	480
68			18x31.5	520

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