

Features

- Lifetime of 2000 hours at 85°C.
- Standard type.
- General purpose.
- Case diameter larger than film capacitor has safety vents.

Characteristics

Item	Characteristics	
Operating temperature range	-40~+85°C (for 0.22 to 1000µF) -25~+85°C (for 1000µF~5000µF)	
Rated voltage range	0.1~450V	
Capacitance range	0.1~10,000µF	
Temperature tolerance (at 20°C, 1.00µF)	±20% (B)	
Storage current (at 20°C)	After 2 weeks application of rated voltage, from 0.01mA to 4mA (when it is greater than 0.2µF to 100µF) After 2 weeks application of rated voltage, from 0.01mA to 20mA (when it is 100µF to 500µF) Where L: Nominal capacitance (µF), V: Rated voltage (V)	
Discharge factor (at 20°C, 1.00µF)	WV (V): 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000 Tol (tolerance): 0.20, 0.20, 0.20, 0.14, 0.10, 0.10, 0.10, 0.09, 0.10, 0.10, 0.10 For capacitance above 1,000µF, add 0.10 for every increase of 1,000µF	
Self-heating characteristics (at 200Hz)	WV (V): 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000 Impedance ratio (Z(200Hz)/R(20°C)): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 Z(200Hz)/R(20°C): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	
104F (5%)	The following specifications shall be satisfied when the capacitor is tested at 85°C after the rated voltage has been applied for 1,000 hours at 85°C.	
	Capacitance change	±20% after initial value
	ESR (Ω)	±200% after initial specified value
Electrolytic	The following specifications shall be satisfied when the capacitor is tested at 85°C after operating for 1,000 hours at 85°C after the rated voltage applied.	
	Capacitance change	±20% after initial value
	ESR (Ω)	±200% after initial specified value

Dimensions


WV (V)	0.2	0.5	1	2	5	10	20	50	100	200
L (mm)	17.5		17.5		17.5		17.5		17.5	
W (mm)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
H (mm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Ripple Current Multipliers
Frequency multiplying factor

WV (V)	Cap. (µF)	f (Hz)				
		50	100	200	500	1000
0.2~100	0.1~10	1.70	1.50	1.4	1.3	1.20
	100~1000	1.40	1.20	1.1	1.0	1.00
	1000~10000	1.00	1.00	1.0	1.0	1.00

Temperature multiplying factor

Temperature (°C)	40	45	55
Factor	1.00	1.20	1.50

Case Size (DxL)(mm) and Maximum Ripple current (mA) at 85°C, 120Hz

WV (V)	Capacitance (µF)													
	0.2	0.5	1	2	5	10	20	50	100	100	200	500	1000	5000
0.1								50	50					
0.25								50	50					
0.50								50	50					
1								50	50	50	50			
2								50	50	50	50	50	50	50
5								50	50	50	50	50	50	50
10								50	50	50	50	50	50	50
20								50	50	50	50	50	50	50
50								50	50	50	50	50	50	50
100								50	50	50	50	50	50	50
200								50	50	50	50	50	50	50
500								50	50	50	50	50	50	50
1000								50	50	50	50	50	50	50
1.250								50	50	50	50	50	50	50
1.500								50	50	50	50	50	50	50
1.750								50	50	50	50	50	50	50
2.000								50	50	50	50	50	50	50
2.500								50	50	50	50	50	50	50
3.000								50	50	50	50	50	50	50
3.500								50	50	50	50	50	50	50
4.000								50	50	50	50	50	50	50
4.500								50	50	50	50	50	50	50
5.000								50	50	50	50	50	50	50
6.000								50	50	50	50	50	50	50
7.000								50	50	50	50	50	50	50
8.000								50	50	50	50	50	50	50
10.000								50	50	50	50	50	50	50
15.000								50	50	50	50	50	50	50

Note: (DxL) can also be (LxD) as per customer's request.