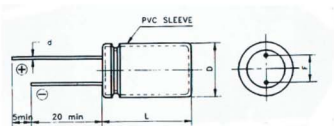


Features

- Long life:5,000 hours(3,000 hours for case dia. 8mm & 10mm,2,000 hours for case dia. 6.3mm)at 105°C
- Low E.S.R. and high reliability.
- Wide operating temperature range, from -40°C to +105°C.
- Suitable for switching power supplies and computer mainboard.
- Having safety vents.

Characteristics

Item	Characteristics								
Operating temperature range	-40~+105°C								
Rated voltage range	6.3~100V								
Capacitance range	4.7~6,800 μF								
Capacitance tolerance (at 20°C,120Hz)	±20%(M)								
Leakage current(I) (at 20°C)	After 2 minute application of rated voltage. I ≤ 0.01CV (μA) Where C: Nominal capacitance in μF,V:Rated voltage in V.								
Dissipation factor(Tan δ) (at 20°C,120Hz)	W.V.(V)	6.3	10	16	25	35	50	63	100
	Tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	For capacitance of more than 1,000 μF,add 0.02 for every increase of 1,000 μF.								
Low temperature characteristics (at 120Hz)	W.V.(v)	6.3~25				35~100			
	impedance ratio ZT/Z+20°C (max)	Z-25°C/Z+20°C		2		1.5			
		Z-40°C/Z+20°C		4		3			
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with max. ripple current has been applied for 5,000 hours(3,000 hours for case dia. 8 & 10mm,2,000hours for case dia. 6.3mm) at 105°C								
	Capacitance change	≤20% of the initial value							
	tan δ	≤200% of the initial specified value							
	I	≤The initial specified value							
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 105°C for 1,000 hours without voltage applied								
	Capacitance change	≤20% of the initial value							
	tan δ	≤150% of the initial specified value							
	I	≤200% of the initial specified value							
Others	Satisfies characteristic W of JIS C5141								

Dimensions


D±0.5	6.3	8	10	13	16
L	±1.0			±2.0	
	11	12	15	16	20
F±0.5	2.5	3.5	5.0		7.5
d±0.05	0.5		0.6		0.8

Ripple Current Multipliers
Frequency multiplying factor

W.V.(v)	Cap.(μF)	Freq(Hz)				
		50	120	1K	10K	100K
6.3~35	33~100	0.40	0.52	0.65	0.79	1.00
	150~1,000	0.40	0.53	0.65	0.79	1.00
	1,500~6,800	0.41	0.54	0.67	0.83	1.00
50~100	4.7~150	0.49	0.62	0.87	0.97	1.00
	220~1,000	0.49	0.71	0.88	0.98	1.00

Temperature multiplying factor

Temperature(°C)	55	65	85	105
Factor	2.44	2.23	1.73	1.00

Case Size DxL(mm),E.S.R.(mΩ/at 20°C,100KHz) And Maximum Ripple Current(A rms/at 105°C,100KHz)

W.V.(v)	6.3			10			16			25			
	Cap.(μF)	Size	E.S.R.	Ripple	Size	E.S.R.	Ripple	Size	E.S.R.	Ripple	Size	E.S.R.	Ripple
6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
6.8													
10													
15													
22													
33													
47													
68													
100													
150													
220													
330													
470													
680													
1,000													

W.V.(v)	35			50			63			100			
	Cap.(μF)	Size	E.S.R.	Ripple	Size	E.S.R.	Ripple	Size	E.S.R.	Ripple	Size	E.S.R.	Ripple
4.7													
6.8													
10													
15													
22													
33													
47													
68													
100													
150													
220													
330													
470													
680													
1,000													

Note:8×15 can also be 10×12 as per customer's request.