



Features

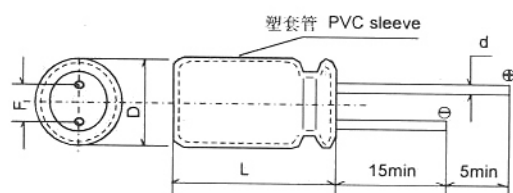
- Load life of 1,000 hours at 105°C.
- 5mm L, standard type.
- Applications: VTR, video camera, car radio, micro cassette tape recorder and other high.
- Density, circuits



Specifications

Item	Characteristics						
Operating temperature range	-40~+105°C						
Rated voltage range	4~50V						
Capacitance range	0.1~4700 μ F						
Capacitance tolerance (at 20°C, 120Hz)	±20%(M)						
Leakage current(I) (at 20°C)	After 2 minutes application of rated voltage. 0.01CV or 3 μ A, whichever is greater. Where C: Nominal capacitance in μ F, V: Rated voltage in V.						
Dissipation factor(Tan δ) (at 20°C, 120Hz)	W.V.(V)	6.3	10	16	25	35	50
	Tan δ (max.)	0.28	0.24	0.20	0.14	0.12	0.10
Low temperature characteristics (at 120Hz)	W.V.(v)	6.3	10	16	25	35	50
	impedance ratio	Z-25°C/Z+20°C		3		2	
	ZT/Z+20°C(max)	Z-40°C/Z+20°C		8	5	4	3
	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage has been applied for 1,000 hours at 105°C.						
Load life	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 85°C for 500 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	4	5	6.3
L±1.0	5		
F±0.5	1.5	2.0	2.5
d±0.05	0.45		

Case Size DxL(mm) and Maximun Ripple current(mA rms/at 105°C,120Hz)

W.V.(v) Cap.(μ F)	4		6.3		10		16		25		35		50	
0.1													3×5	1
													4×5	1
0.22													3×5	2
													4×5	2
0.33													3×5	2.8
													4×5	2.8
0.47													3×5	4
													4×5	4
1													3×5	8
													4×5	8.4
2.2												3×5	8.4	4×5
												4×5	8.4	4×5
3.3									3×5	13				
									4×5	15		4×5	17	4×5
4.7								3×5	14					
								4×5	15			4×5	17	4×5
													5×5	20
10			3×5	17	4×5	22	4×5	23	4×5	25	5×5	25	6.3×5	28
			4×5	20					5×5	25				
22	3×5	21	3×5	25	3×5	25	4×5	30	5×5	40				
					4×5	30					6.3×5	48	8×5	75
	4×5	23	4×5	30	5×5	31	5×5	44	6.3×5	50				
33	4×5	35	5×5	35	5×5	40	6.3×5	68	6.3×5	68	8×5	80	8×5	90
47	4×5	30	5×5	45	6.3×5	60	6.3×5	70	8×5	95	8×5	100		
100	5×5	60	6.3×5	85	6.3×5	95	8×5	125	8×5	135				
220	6.3×5	105	8×5	145	8×5	155	8×5	165						
330	8×5	150	8×5	175										
470	8×5	180												

Ripple Current Multipliers

Frequency multiplying factor

Cap.(μ F)	Freq.(Hz)			
	50.60	120	1k	10k-100K
6.3~16	0.80	1.0	1.3	1.5
25~35	0.80	1.0	1.2	1.2
50	0.80	1.0	1.15	1.2

Temperature multiplying factor

Temperature(°C)	+70	+85	+105
Factor	2.10	1.80	1