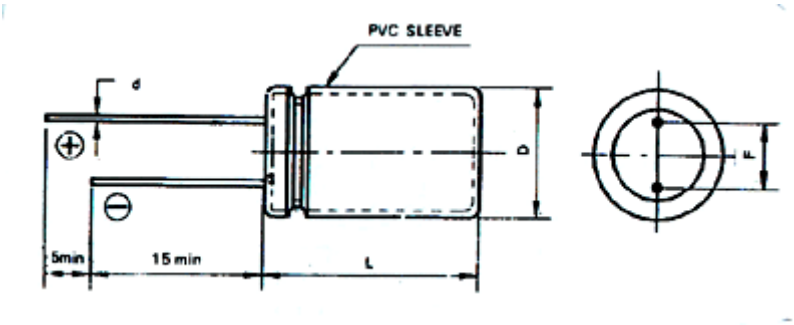
Features and Applications:

●Load life of 1,000 hours at 85℃.
●7mm L, Standard type.
●Suitable for high-density electronic equipment, such as VTR, video camera, car radio, micro cassette tape recorder, etc.

Performance and Characteristics:

Item	Characteristics									
Operating temperature range	-40～+85℃									
Rated voltage range	4～100V									
Capacitance range	0.1～330μF									
Capacitance tolerance (at 20℃,120Hz)	±20%(M)									
Leakage current(I) (at 20℃)	After 2 minute application of rated voltage $I \leqslant 0.01 C_R U_R$ or 3μA,whichever is greater. Where C_R: Nominal capacitance in μF, U_R: Rated voltage in V									
Dissipation factor (tg δ) (at 20℃,120Hz)	W.V.(V)		4	6.3	10	16	25	35	50	63	100
	tg δ(max.)		0.35	0.24	0.2	0.16	0.14	0.12	0.1	0.09	0.08
Low temperature characteristics (at 120Hz)	W.V.(v)		4	6.3	10	16～35			50～100		
	Impedance ratio	Z-25℃/Z+20℃	6	4	3	2					
	ZT/Z+20℃ (max.)	Z-40℃/Z+20℃	12	8	6	4			3		
Load life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage has been applied for 1,000 hours at 85℃									
	Capacitance change		≤20% of the initial value								
	tg δ		≤150% 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℃ after exposing them at 85℃ for 500 hours without voltage applied.									
	Capacitance change		≤20% of the initial value								
	tg δ		≤150% of the initial specified value								
	I		≤200% of the initial specified value								

Dimensions



D±0.5	4	5	6.3	8
L±1.0	7			
F±0.5	1.5	2	2.5	3.5
d±0.05	0.45			

Nominal Capacitance, Case Size D×L(mm) and Maximum Ripple current(mA/at 85℃,120Hz)

W.V.(v) / Cap.(μF)	4		6.3		10		16		25		35		50		63		100	
0.1													4×7	1.3	4×7	1.7		
0.22													4×7	2.9	4×7	3.7		
0.33													4×7	4.4	4×7	5.5		
0.47													4×7	6.3	4×7	7.7		
1													4×7	11	4×7	11	4×7	12
2.2													4×7	16	4×7	17	5×7	20
3.3									4×7	16	4×7	18	4×7	19	4×7	20	6.3×7	28
4.7									4×7	20	4×7	21	4×7	23	4×7	24	6.3×7	34
10							4×7	27	4×7	28	4×7	31	5×7	38	6.3×7	26		
22			4×7	32	4×7	35	4×7	40	5×7	48	5×7	52	6.3×7	65				
33	4×7	33	4×7	40	4×7	43	5×7	55	6.3×7	67	6.3×7	73						
47	4×7	39	4×7	47	4×7	52	5×7	65	6.3×7	80	6.3×7	87						
100	5×7	64	5×7	78	6.3×7	98	6.3×7	109	8×9	135								
220	6.3×7	110	6.3×7	133	6.3×7	168	8×9	187										
330	8×9	155	8×9	187														

Ripple Current Multipliers

Frequency multiplying factor

Freq.(Hz) / Cap.(μF)	50	120	300	1k	10k
0.1～47	0.75	1	1.35	1.57	2
100～330	0.8	1	1.23	1.34	1.5

Temperature multiplying factor

Temperature(℃)	45	65	85
Factor	1.59	1.23	1.00