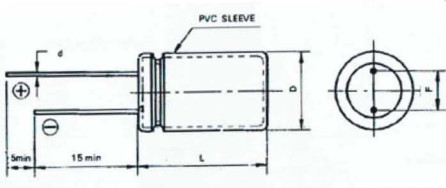


Features

- Load life of 1,000 hours at 105°C.
- 7mm L, wide operating temperature range.
- Applications: VTR, video camera, car radio, micro cassette tape recorder, etc.

Characteristics

Item	Characteristics							
Operating temperature range	-40~+105°C							
Rated voltage range	6.3~63V							
Capacitance range	0.1~470μF							
Capacitance tolerance (at 20°C, 120Hz)	±20%(M)							
Leakage current(I) (at 20°C)	After 2 minute application of rated voltage. I ≤ 0.01CV or 3μA, whichever is greater. 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
	Tan δ (max.)	0.24	0.20	0.16	0.14	0.12	0.10	0.09
Low temperature characteristics (at 120Hz)	W.V.(V)	6.3	10	16~25		35~100		
	impedance ratio ZT/Z+20°C(max)	Z-25°C/Z+20°C	4	3	2			
Load life	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.							
	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 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	8
L±1.0	7			
F±0.5	1.5	2.0	2.5	3.5
d±0.05	0.45			

Case Size DxL(mm) and Maximum Ripple current(mA rms/at 105°C, 100Hz)

W.V.(V)	4		6.3		10		16		25		35		50	
Cap.(μF)														
0.1											4×7	1.3	4×7	1.7
0.22											4×7	2.9	4×7	3.6
0.33											4×7	4.4	4×7	5.0
0.47											4×7	5.7	4×7	6.0
1											4×7	8.3	4×7	8.7
2.2											4×7	12	4×7	13
3.3							4×7	13	4×7	14	4×7	15	4×7	16
4.7							4×7	15	4×7	16	4×7	18	5×7	21
10					4×7	21	4×7	22	4×7	24	5×7	30	6.3×7	36
22	4×7	25	4×7	27	4×7	31	5×7	37	5×7	40	6.3×7	50	8×7	61
33	4×7	31	4×7	36	5×7	42	6.3×7	52	6.3×7	56	8×7	71		
47	4×7	37	4×7	40	5×7	51	6.3×7	62	6.3×7	67	8×7	85		
100	5×7	60	5×7	66	6.3×7	85	8×7	105	8×7	113				
220	6.3×7	103	6.3×7	112	8×7	145								
330	8×7	145	8×7	159	8×7	178								
470	8×7	173												

Ripple Current Multipliers
Frequency multiplying factor

Cap.(μF)	Freq.(Hz)				
	50	120	300	1k	≥10k
0.1~47	0.75	1.00	1.35	1.57	2.00
100~470	0.80	1.00	1.23	1.34	1.50

Temperature multiplying factor

Temperature(°C)	70	85	105
Factor	1.78	1.40	1.00