



TMCE10 Miniature Size 5mm Aluminum Electrolytic Capacitors 85°C

Features

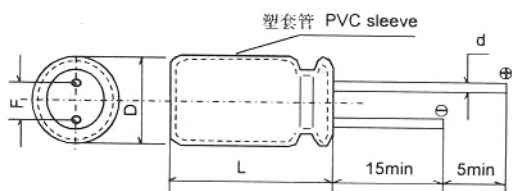
- Load life of 1,000 hours at 85°C.
- 5mm L, standard type.
- Applications: VTR, video camera, car radio, micro cassette tape recorder and other high.
- Density, circuits



Specifications

Item	Characteristics								
Operating temperature range	-40~+85°C								
Rated voltage range	4~50V								
Capacitance range	0.1~220 μ F								
Capacitance tolerance (at 20°C, 120Hz)	±20%(M)								
Leakage current(I) (at 20°C)	After 2 minutes application of rated voltage. $I \leq 0.01CV$ or $3\mu A$, 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)	4	6.3	10	16	25	35	50	
	Tan δ (max.)	0.35	0.24	0.20	0.16	0.14	0.12	0.10	
Low temperature characteristics (at 120Hz)	W.V.(v)	4	6.3	10	16~25	35~100			
	impedance ratio	Z-25°C/Z+20°C		6	4	3	2		
	ZT/Z+20°C(max)	Z-40°C/Z+20°C		12	8	6	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 85°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	8
L±1.0	5			
F±0.5	1.5	2.0	2.5	3.5
d±0.05	0.45			

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

W.V.(v) Cap.(μ F)	4		6.3		10		16		25		35		50	
0.1													4×5	1.3
0.22													4×5	2.9
0.33													4×5	4.4
0.47													4×5	6.3
1													4×5	9.2
2.2											4×5	12	4×5	14
3.3									4×5	14	4×5	15	4×5	17
4.7							4×5	16	4×5	17	4×5	18	5×5	23
10			4×5	19	4×5	21	4×5	23	4×5	25	5×5	30	6.3×5	38
22	4×5	23	4×5	28	4×5	31	4×5	34	5×5	42	6.3×5	53	8×5	66
33	4×5	28	4×5	34	4×5	37	5×5	48	6.3×5	59	8×5	74		
47	4×5	34	4×5	41	4×5	51	5×5	57	6.3×5	70	8×5	88		
100	5×5	56	5×5	68	6.3×5	85	6.3×5	95	8×5	119				
220	6.3×5	96	6.3×5	141	6.3×5	148	8×5	165						
330	8×5	137	8×5	165										
470	8×5	163												

Ripple Current Multipliers

Frequency multiplying factor

Cap.(μ F) \ Freq.(Hz)	50	120	300	1k	10k
0.1~47	0.75	1.00	1.35	1.57	2.00
100~330	0.80	1.00	1.23	1.34	1.50

Temperature multiplying factor

Temperature(°C)	45	65	85
Factor	1.59	1.23	1.00