

Ultra Miniature Size Height 5mm 85°C 1000HR 超小型品 85°C

Features

- Designed for space-saving and high density insertion.
- 4WV products are standardized for recent battery power source devices.
- Low price compared to tantalum capacitors.
- Application: VTR, camera car audio, mini-audio sets, OA related equipment and other industrial and commercial applications.

Specifications

Items	Performance Characteristics							
Operating Temperature Range	-40 to +85°C							
Rated Working Voltage Range	4 to 5V DC							
Nominal Capacitance Range	0.1 to 470 μ F							
Capacitance Tolerance	$\pm 20^\circ$ C (120Hz, +20°C)							
Leakage Current	1 \leq 0.01CV or 3(μ A) whichever is greater measured after 3 minutes application of rated working voltage at +20°C							
Dissipation Factor (tan δ) (120Hz, +20°C)	Working voltage (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
Characteristics at Low Temperature	Impedance ratio max. at 120Hz							
	Working voltage (v)	4	6.3	10	16	25	35	50
	-25°C/+20°C	7	4	3	2	2	2	2
	-40°C/+20°C	15	8	6	4	4	3	3
High Temperature Loading	Test conditions							
	Duration	: 1000 hours						
	Ambient temperature	: +85°C						
	Applied Voltage	: Rated DC working voltage						
	Post test requirements at +20°C							
	Leakage current	: \leq initial specified value						
	Capacitance change	: $\leq +20\%$ of initial measured value (4V: $\leq +30\%$)						
	tan δ	: $\leq 150\%$ of initial specified value						
Shelf Life	Test conditions				Post test requirements at +20°C			
	Duration	: 500 hour			Same limits for high temperature loading.			
	Ambient temperature	: +85°C						
	Applied voltage	: (None)						
Others	Satisfies characteristic W of JIS C 5141-1982							

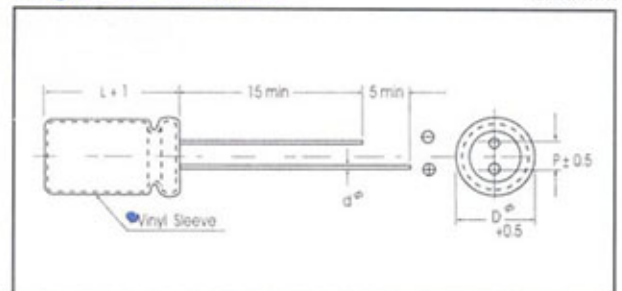
Case Size Table

 ϕ D × L (mm)

WV (SV) μ F	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1							4(3) × 5
0.22							4(3) × 5
0.33							4(3) × 5
0.47	Blank item can be substituted						4(3) × 5
1.0	by nearest column item						4(3) × 5
2.2						4(3) × 5	4(3) × 5
3.3					4(3) × 5	4(3) × 5	4 × 5
4.7				4(3) × 5	4(3) × 5	4 × 5	5(4) × 5
10		4(3) × 5	4 × 5	4 × 5	4 × 5	5 × 5	6.3 × 5
22	3 × 5	4(3) × 5	4 × 5	4 × 5	5 × 5	6.3 × 5	8 × 5
33	4 × 5	4 × 5	4 × 5	6.3 × 5	6.3 × 5	8 × 5	
47	4 × 5	4 × 5	5 × 5	6.3 × 5	6.3 × 5	8 × 5	
100	5 × 5	5 × 5	6.3 × 5	6.3 × 5	8 × 5		
220	6.3 × 5	6.3 × 5	8 × 5	8 × 5			
470	8 × 5						

Diagram of Dimensions

Unit: mm



D ϕ	3	4	5	6.3	8
P	1.0 \pm 0.3	1.5 \pm 0.5	2.0 \pm 0.5	2.5 \pm 0.5	3.5 \pm 0.5
d ϕ	0.4	0.45			0.50