

LAN 105 °C

Features

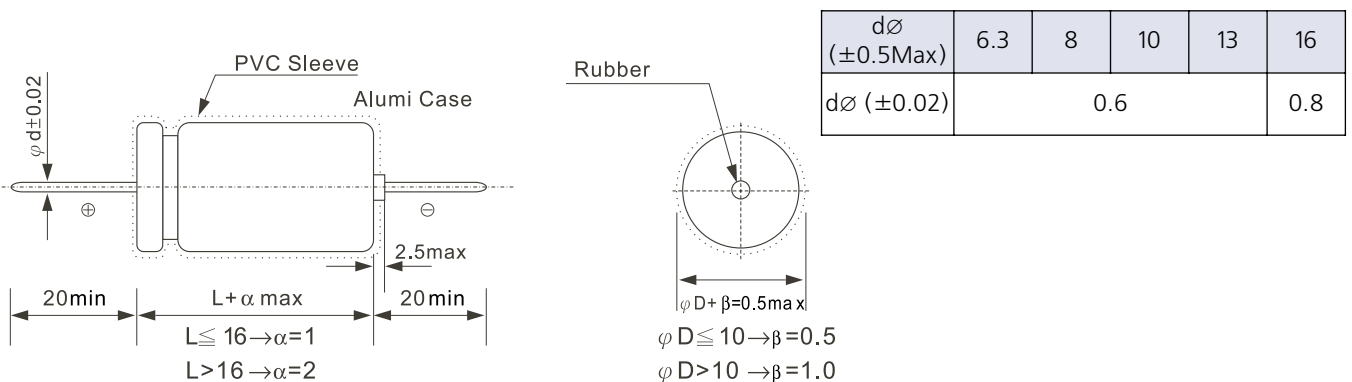
- There are non-polar capacitors designed for circuits with reversing polarity
- Tolerance of $\pm 10\%$ (K) if required can also be available on request



Specifications

Item	Performance Characteristics																								
Voltage Range	10~100 V																								
Temperature Range	-40 ~ +105 °C																								
Capacitance Range	0.47 to 1000 μ F																								
Capacitance Tolerance	$\pm 20\%$ (120 Hz, +20 °C)																								
Leakage Current	$I = 0.03 CV + 4$ (μ A) max. (After 5 minutes)																								
Dissipation Factor (tan δ)	<table border="1"> <thead> <tr> <th>Rated voltage</th> <th>10V</th> <th>16V</th> <th>25V</th> <th>35V</th> <th>50V</th> <th>63V</th> <th>100V</th> </tr> </thead> <tbody> <tr> <td>Tan, δ (max)</td> <td>0.20</td> <td>0.16</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </tbody> </table> (+ 20 °C, at 120 Hz)	Rated voltage	10V	16V	25V	35V	50V	63V	100V	Tan, δ (max)	0.20	0.16	0.16	0.14	0.14	0.12	0.12								
Rated voltage	10V	16V	25V	35V	50V	63V	100V																		
Tan, δ (max)	0.20	0.16	0.16	0.14	0.14	0.12	0.12																		
Stability at Low Temperature	Impedance ratio at 120 Hz. <table border="1"> <thead> <tr> <th>Rated voltage</th> <th>10V</th> <th>16V</th> <th>25V</th> <th>35V</th> <th>50V</th> <th>63V</th> <th>100V</th> </tr> </thead> <tbody> <tr> <td>Z-25 °C/Z+20 °C</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40 °C/Z+20 °C</td> <td>6</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	Rated voltage	10V	16V	25V	35V	50V	63V	100V	Z-25 °C/Z+20 °C	3	2	2	2	2	2	2	Z-40 °C/Z+20 °C	6	6	4	4	4	4	4
Rated voltage	10V	16V	25V	35V	50V	63V	100V																		
Z-25 °C/Z+20 °C	3	2	2	2	2	2	2																		
Z-40 °C/Z+20 °C	6	6	4	4	4	4	4																		
Load Test	After the rated voltage has been applied for 1000 hours at 105 °C <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within $\pm 20\%$ of initial value</td> </tr> <tr> <td>D.F. Tan δ</td> <td>150 % or less of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </tbody> </table>	Capacitance Change	Within $\pm 20\%$ of initial value	D.F. Tan δ	150 % or less of initial specified value	Leakage Current	Initial specified value or less																		
Capacitance Change	Within $\pm 20\%$ of initial value																								
D.F. Tan δ	150 % or less of initial specified value																								
Leakage Current	Initial specified value or less																								

Diagram of Dimensions: (Unit: mm)



Case Size of Standard Products

φD x L (mm)

W.V. μF	10	16	25	35	50	63	100
0.47					6x16	6x16	6x16
1					6x16	6x16	6x16
2.2					6x16	6x16	6x16
3.3					6x16	6x16	6x16
4.7					6x16	6x16	8x16
6.8					6x16	6x16	8x16
10				6x16	6x16	6x16	10x21
15			6x16	6x16	6x16	8x16	10x21
22		6x16	6x16	6x16	8x16	8x16	10x21
33	6x16	6x16	6x16	8x16	8x16	10x21	13x26
47	6x16	8x16	8x16	8x16	10x21	10x21	13x26
68	6x16	8x16	8x16	10x21	10x21	10x26	13x26
100	8x16	8x16	10x21	10x21	10x26	13x26	16x32
150	8x16	10x21	10x21	10x26	13x26	13x26	16x38
220	10x21	10x21	10x26	13x26	13x26	16x32	
330	10x21	10x26	13x26	13x26	16x32	16x32	
470	10x26	10x26	13x26	13x32	16x32	16x38	
680	10x26	13x26	13x32	16x32	16x38		
1000	13x26	13x32	16x32	16x38			

Maximum Ripple Current

(mA, rms, 120 Hz at 105 °C)

W.V. μF	10	16	25	35	50	63	100
0.47					10	12	12
1					16	19	19
2.2					23	25	30
3.3					31	32	39
4.7					39	40	45
6.8					48	50	58
10				55	62	65	80
15			60	63	70	86	98
22		64	70	75	89	115	130
33	70	80	85	98	125	140	185
47	87	95	105	130	150	190	235
68	110	130	140	170	200	240	290
100	135	175	190	230	250	300	430
150	180	230	250	290	350	445	550
220	240	300	320	400	460	560	710
330	315	380	450	490	600	770	
470	400	480	560	640	810	950	
680	570	650	750	880	1303		
1000	730	860	980	1150			