

GP7 Series

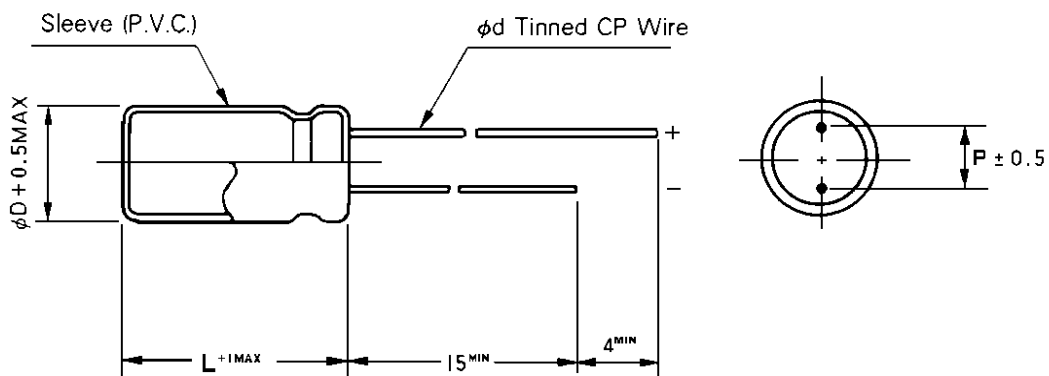


Features

- * Excellent spacing factors with 7mm height
- * Lifetime of 1000 Hrs at 85 °C
- * Available on tape for automatic insertion
- * Solvent proof

Item	Performance Characteristics																						
Operating Temperature Range	-40°C to +85°C																						
Working Voltage Range	6.3 to 50 Volts D.C.																						
Nominal Capacitance Range	0.1 to 100 uF																						
Capacitance Tolerance	+/- 20 % (120 Hz), 20°C																						
Leakage Current (+20°C)	$I \leq 0.01 \text{ CV}$ or 3 uA, whichever is greater after 2 minutes of applied voltage																						
Dissipation Factor % (120 Hz, +20°C)	Less than the value below:																						
	<table border="1"> <tr> <td>WVDC</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td rowspan="2">120 Hz 20°C</td> </tr> <tr> <td>tan δ (Max)</td> <td>0.24</td> <td>0.2</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.1</td> </tr> </table>	WVDC	6.3	10	16	25	35	50	120 Hz 20°C	tan δ (Max)	0.24	0.2	0.16	0.14	0.12	0.1							
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Temperature Characteristic	Impedance Ratio																						
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Load Life	<p><u>Test conditions</u></p> <p>Duration: 1000 Hrs</p> <p>Ambient temperature: +85°C</p> <p>Applied voltage: Rated working voltage</p> <p>Ripple Current: Maximum rated ripple current.</p> <p><u>After testing--Measure at 20°C</u></p> <p>Capacitance change: $\leq \pm 25\%$ of initial value (WV=4), $\pm 20\%$ (WV≥ 6.3)</p> <p>Dissipation factor: $\leq 200\%$ of initial specified value</p> <p>Leakage current: \leq The initial specified value</p>																						
Shelf Life	<p><u>Test Conditions</u></p> <p>Duration time: 1000 Hrs</p> <p>Ambient temperature: +85°C</p> <p>Applied voltage: None</p> <p><u>After testing--Measure at 20°C</u></p> <p>Pretreatment before testing: According to JIS C-5102 4-3</p> <p>Same limits as for load life.</p>																						
Marking	White print on black sleeve																						
Applicable Standards	Characteristics of W of JIS C-5141																						

Physical Dimensions and Mounting Details



Diameter	4	5	6.3
Lead Pitch	1.5	2.0	2.5
Lead Diameter	0.45	0.45	0.50

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Ir (mA) specified at 85°C and 120 KHz
 All capacitors in this range are 7 mm tall

GP7 Standard Products Table 4 to 16 Volt

uF	6.3 V			10 V			16 V		
	Dia	L	Ir(mA)	Dia	L	Ir(mA)	Dia	L	Ir(A)
10							4 x 7		27
22	4 x 7		29	5 x 7		39	5 x 7		43
33	5 x 7		43	5 x 7		48	6.3 x 7		58
47	5 x 7		52	6.3 x 7		61	6.3 x 7		69
100	7 x 7		82						

GP7 Standard Products Table 25 to 50 Volt

uF	25 V			35 V			50 V		
	Dia	L	Ir(A)	Dia	L	Ir(A)	Dia	L	Ir(A)
0.1							4 x 7		1
0.22							4 x 7		2
0.33							4 x 7		3
0.47							4 x 7		5
1							4 x 7		10
2.2							4 x 7		16
3.3							4 x 7		19
4.7				4 x 7		21	5 x 7		25
10	5 x 7		31	5 x 7		34	6.3 x 7		40
22	6.3 x 7		50	6.3 x 7		54			
33	6.3 x 7		62						