

SMD Aluminum Electrolytic Capacitors

HH Series – High Temperature Chip Type 105°C 5000hrs



Specifications

Item	Performance																											
Operating Temperature Range	-40 to+105℃																											
Rated Working Voltage Range	6.3 – 50VDC																											
Nominal Capacitance Range	0.1 – 1000μ F																											
Capacitance Tolerance	± 20% (at+20℃ ,120Hz)																											
Leakage Current	I ≤0.01CV or 3(μ A), whichever is greater after 2 minutes, measured with rated working voltage applied..																											
Dissipation Factor (tanδ) (120Hz\+20℃)	<table><tr><td>Rated voltage VDC</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>D.F. (%) max.</td><td>28</td><td>24</td><td>20</td><td>16</td><td>13</td><td>12</td></tr></table>							Rated voltage VDC	6.3	10	16	25	35	50	D.F. (%) max.	28	24	20	16	13	12							
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Characteristics at Low Temperature (stability at 120 Hz)	<table><tr><td>Rated voltage (VDC)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z -25℃ / AZ+20℃</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z -40℃ / AZ+20℃</td><td>10</td><td>7</td><td>5</td><td>3</td><td>3</td><td>3</td></tr></table>							Rated voltage (VDC)	6.3	10	16	25	35	50	Z -25℃ / AZ+20℃	4	3	2	2	2	2	Z -40℃ / AZ+20℃	10	7	5	3	3	3
Rated voltage (VDC)	6.3	10	16	25	35	50																						
Z -25℃ / AZ+20℃	4	3	2	2	2	2																						
Z -40℃ / AZ+20℃	10	7	5	3	3	3																						
Load life	After 5000hrs. application of DC rated working voltage at +105℃ , The capacitor shall meet the following limits: Post test requirements at +20℃ . <table><tr><td>Leakage Current</td><td>the initial specified value</td></tr><tr><td>Capacitance change</td><td>±30% of initial measured value.</td></tr><tr><td>Dissipation Factor(tanδ)</td><td>00% of initial specified value</td></tr></table>							Leakage Current	the initial specified value	Capacitance change	±30% of initial measured value.	Dissipation Factor(tanδ)	00% of initial specified value															
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Shelf Life	After storage for 1000hrs. at +105℃ with no voltage applied. Post test requirements at +20℃ , same limits as load life test, rated voltage should be applied before measurement.																											

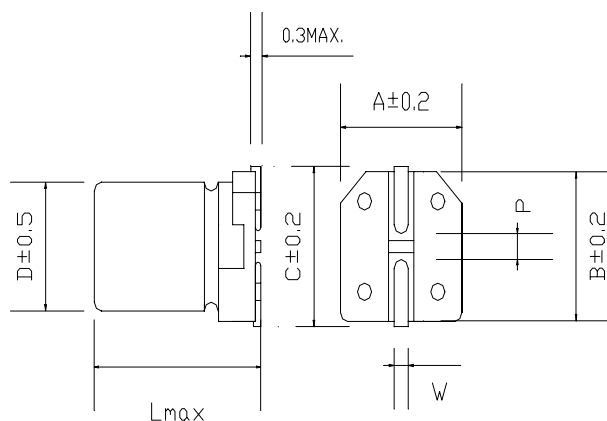
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SYMBOL OF QUALITY

Diagram of Dimensions



ΦD	L±0.5	A	B	C	W	P
4	5.5	4.3	4.3	4.9	0.5~0.8	1.0
5	5.5	5.3	5.3	5.9	0.5~0.8	1.4
6.3	5.5	6.6	6.6	7.2	0.5~0.8	2.2
6.3	7.7	6.6	6.6	7.2	0.5~0.8	2.2
8	6.5	8.3	8.3	9.0	0.5~0.8	2.3
8	10.5	8.3	8.3	9.0	0.7~1.1	3.1
10	10.5	10.3	10.3	11.0	0.7~1.1	4.5

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Case Size

Max ripple current: mA rms at 105°C. 120Hz (DxL mm)

W.V	6.3V		10V		16V		25V		35V		50V	
μF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4x5.5	1.0
0.22											4x5.5	2.6
0.33											4x5.5	3.2
0.47											4x5.5	3.8
1											4x5.5	6.2
2.2											4x5.5	11
3.3											4x5.5	14
4.7							4x5.5	13	4x5.5	15	4x5.5	19
10					4X5.5	17	4X5.5	23	5X5.5	25	6.3X5.5	30
22	4X5.5	22	5X5.5	28	5X5.5	30	6.3X5.5	40	6.3X5.5	42	6.3X7.7	52
33	5x5.5	32	5x5.5	34	6.3x5.5	44	6.3x5.5	48	6.3x7.7	57	8x10.5	80
47	5x5.5	36	6.3x5.5	48	6.3x5.5	50	6.3x7.7	63	8x10.5	92	8x10.5	95
100	6.3x5.5	60	6.3x7.7	79	6.3x7.7	81	8x10.5	116	10x10.5	150	10x10.5	160
220	6.3x7.7	110	8x10.5	140	10x10.5	216	10x10.5	240	10x10.5	280		
330	8x10.5	160	10x10.5	240	10X10.5	300	10x10.5	375				
470	10X10.5	260	10X10.5	280	10X10.5	320						
1000	10X10.5	340										