

SH7Series Miniaturized 7mm height 105°C超小型品

1. 本體之高度縮短至 7mm,適用於輕薄小型化之電子產品.

Developed short body length to 7mm, for the demand of smaller and thinner electronic equipment.

2. 適用於高密度電子設計,例如:OA 機器、電子電腦、汽車音響、迷你音響、攝影機、光碟機、手提電腦...

Most suitable for high-density electronic equipment, such as: automatic office machines, pocket calculators, car stereos and mini-audio sets, VCR, camera, CD-ROM, notebook, etc.

Specifications

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No	Item	Performance																											
1	使用溫度範圍 Operating Temperature Range	-40 to +105 ⁰ C																											
2	定格電壓範圍 Rated Working Voltage Range	4V-63V.DC																											
3	靜電容量範圍 Capacitance Tolerance	0.1-470μF																											
4	靜電容量容許差 Capacitance Tolerance	±20%(at+20 ⁰ C,120Hz)																											
5	洩漏電流 Leakage Current	After 2 minutes application of rated voltage I≤0.01CV or 3 μA minimum at 20 ⁰ C																											
6	損失角 Dissipation Factor(tanδ) (120Hz\+20 ⁰ C)	<table><tr><td>Working Voltage (V)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td>tanδ max.</td><td>0.35</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td></tr></table>	Working Voltage (V)	4	6.3	10	16	25	35	50	63	tanδ max.	0.35	0.24	0.20	0.16	0.14	0.12	0.10	0.09									
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7	低溫度特性 (at 120 Hz) Characteristics at low temperature (Impedance ratio at 120Hz)	<table><tr><td>Working Voltage (V)</td><td>4</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td>Z-25 ⁰C/A</td><td>6</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z-40 ⁰C/A</td><td>12</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table>	Working Voltage (V)	4	6.3	10	16	25	35	50	63	Z-25 ⁰ C/A	6	4	3	2	2	2	2	2	Z-40 ⁰ C/A	12	8	6	4	4	3	3	3
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8	高溫負荷特性 High Temperature Loading	After 1000hrs. application of DC rated working voltage at +105 ⁰ C, The capacitor shall meet the following limits: Post test requirements at + 20 ⁰ C <table><tr><td>Leakage current</td><td>≤ the Initial specified value</td></tr><tr><td>Capacitance change</td><td>≤±25% of initial measured value</td></tr><tr><td>Dissipation Factor(tanδ)</td><td>≤200% of initial specified value</td></tr></table>	Leakage current	≤ the Initial specified value	Capacitance change	≤±25% of initial measured value	Dissipation Factor(tanδ)	≤200% of initial specified value																					
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9	高溫無負荷特性 Shelf Life	After 1000hrs. Application of DC no rated working voltage at +105 ⁰ C,The capacitor shall meet the following limits: Post test requirements at + 20 ⁰ C <table><tr><td>Leakage current</td><td>≤200% of initial specified value</td></tr><tr><td>Capacitance change</td><td>≤±20% of initial measured value</td></tr><tr><td>Dissipation Factor(tanδ)</td><td>≤200% of initial specified value</td></tr></table>	Leakage current	≤200% of initial specified value	Capacitance change	≤±20% of initial measured value	Dissipation Factor(tanδ)	≤200% of initial specified value																					
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Multiplier for ripple current 紋波電流補正係數

Frequency Coefficient 周波數係數

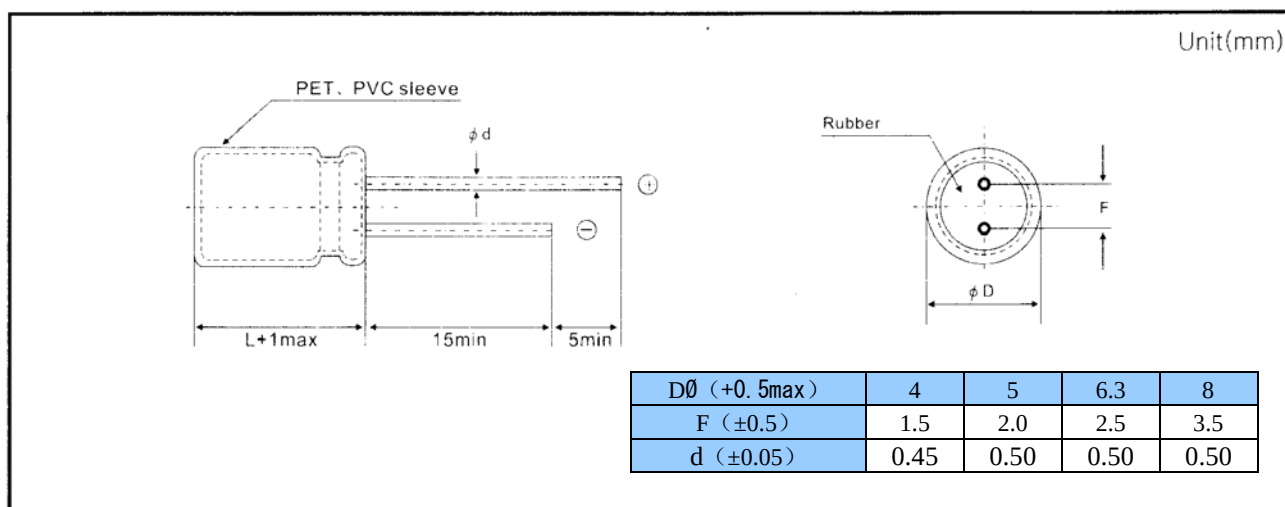
μF \ Frequency	60 (50) Hz	120 H z	400 H z	1K H z	≥10K H z
0.1~47	0.80	1.00	1.30	1.45	1.65
68~470	0.80	1.00	1.15	1.25	1.35

Temperature Coefficient 周圍溫度係數

Coefficient \ temperature(°C)	105	85	≤65
coefficient	1.0	1.7	2.1

SH7 Series

Diagram of Dimensions



尺寸一覽表

Case Size Table

ØD×L(mm)

W.V. (SV) µF	4 (5)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.1							4×7 1	4×7 1
0.22							4×7 2	4×7 2
0.33							4×7 3	4×7 3
0.47							4×7 5	4×7 5
0.68							4×7 7	4×7 7
1							4×7 10	4×7 10
2.2							4×7 16	4×7 16
3.3						4×7 18	4×7 19	5×7 24
4.7					4×7 20	4×7 22	5×7 24	6.3×7 30
6.8					4×7 24	5×7 27	6.3×7 30	6.3×7 35
10				4×7 25	4×7 28	5×7 32	6.3×7 38	
22		4×7 32	4×7 35	4×7 38	5×7 48	5×7 50 6.3×7 57	6.3×7 60 8×7 65	
33	4×7 25	4×7 40	4×7 43	5×7 55	6.3×7 63	6.3×7 54 8×7 68	6.3×7 60 8×7 78	
47	4×7 32	4×7 45	5×7 58	5×7 60 6.3×7 66	6.3×7 70	6.3×7 66 8×7 70		
68	4×7 44	5×7 65	6.3×7 70	6.3×7 70	6.3×7 75	8×7 78		
100	5×7 55	5×7 75	5×7 85 6.3×7 95	6.3×7 70 8×7 90	8×7 110			
150	5×7 70	6.3×7 85	6.3×7 95	6.3×7 102				
220	6.3×7 90	6.3×7 120	6.3×7 100 8×7 130					
330	8×7 150	8×7 160						
470	8×7 180							

→ 額定紋波電流 Rated ripple current (mAr.m.s) at105

°C,120Hz