

UN Non-polarized 无极性品



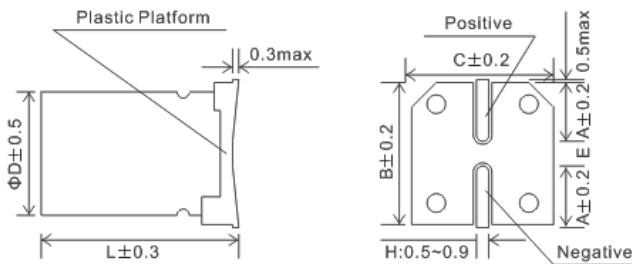
- 105°C, 1000 hours assured. Non-polarized.
105°C, 无极性, 负荷寿命 1000 小时品。
- Case diameter $\Phi 4\text{mm} \sim \Phi 6.3\text{mm}$.
产品直径 $\Phi 4\text{mm} \sim \Phi 6.3\text{mm}$.
- Available for high density surface mounting.
适用于高密度表面组装。
- High stability and reliability.
性能稳定, 可靠性高。

Specifications 特性表

Items 项目	Characteristics 主要特性																					
Rated Voltage Range 额定工作电压范围	6.3 ~ 50V _{dc}																					
Category Temperature Range 使用温度范围	-55 ~ +105°C																					
Capacitance Tolerance 静电容量允许偏差	±20% (M), at 20°C, 120Hz																					
Leakage Current 漏电流, 20°C 环境下施加工作电压 2 分钟后. (at 20°C, After 2 minutes)	I ≤ 0.01CV or 3uA, whichever is greater 漏电流 ≤ 0.01CV or 3uA, 取较大值 Where, I: Max. leakage current (漏电流, uA), C: Nominal capacitance (静电容量, uF), V: Rated voltage (额定电压 V)																					
Dissipation Factor (Tanδ, at 20°C, 120Hz) 损耗角正切值 (测试条件为 20°C, 120Hz)	<table border="1"> <tr> <td>Rated voltage (V) 额定工作电压</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tanδ (Max.) 最大损耗角正切</td> <td>0.35</td> <td>0.26</td> <td>0.24</td> <td>0.22</td> <td>0.20</td> <td>0.20</td> </tr> </table> <p>When nominal capacitance exceeds 1,000uF, add 0.02 to the value above for each 1,000uF increase. 静电容量大于1000uF, 每增加1000uF, 损耗角正切增加0.02</p>	Rated voltage (V) 额定工作电压	6.3	10	16	25	35	50	Tanδ (Max.) 最大损耗角正切	0.35	0.26	0.24	0.22	0.20	0.20							
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Low Temperature Characteristics (Max. Impedance Ratio, 120Hz) 低温特性最大阻抗比	<table border="1"> <tr> <td>Rated voltage (V) 额定工作电压</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°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage (V) 额定工作电压	6.3	10	16	25	35	50	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	Z(-40°C)/Z(20°C)	10	8	6	4	3	3
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Endurance 耐久性	<p>The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the ripple current is applied for the specified period of time at 105°C. 在 105°C 环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载规定时间的额定电压后, 待温度恢复到 20°C 进行测量时, 应满足以下要求。</p> <table border="1"> <tr> <td>Test Time 测试时间</td> <td>1,000Hrs</td> </tr> <tr> <td>Capacitance Change 静电容量变化率</td> <td>Within ±30% initial value 初始值的±30%以内</td> </tr> <tr> <td>Dissipation Factor 损耗角正切</td> <td>≤300% of specified value 不大于规范值的 300%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>≤The initial specified value 不大于规范值</td> </tr> </table>	Test Time 测试时间	1,000Hrs	Capacitance Change 静电容量变化率	Within ±30% initial value 初始值的±30%以内	Dissipation Factor 损耗角正切	≤300% of specified value 不大于规范值的 300%	Leakage Current 漏电流	≤The initial specified value 不大于规范值													
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Shelf Life 高温贮存	<p>The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of IEC 60384-4. 在 105°C 环境中, 无负荷放置 1,000 小时后待温度恢复到 20°C, 进行试验前处理(IEC 60384-4 4.1 项)后进行测量时, 应满足以下要求。</p> <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td> <td>Within ±30% initial value 初始值的±30%以内</td> </tr> <tr> <td>Dissipation Factor 损耗角正切值</td> <td>≤300% of specified value 不大于规范值的 300%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>≤200% of specified value 不大于规范值的 200%</td> </tr> </table>	Capacitance Change 静电容量变化率	Within ±30% initial value 初始值的±30%以内	Dissipation Factor 损耗角正切值	≤300% of specified value 不大于规范值的 300%	Leakage Current 漏电流	≤200% of specified value 不大于规范值的 200%															
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Drawing(Unit: mm) 外形图

($\Phi 4 \sim \Phi 6.3$)



Case Size 产品尺寸	A	B	C	E	L	H
$\Phi 4 \times 5.4$	1.8	4.3	4.3	1.0	5.4	0.5~0.9
$\Phi 5 \times 5.4$	2.1	5.3	5.3	1.3	5.4	0.5~0.9
$\Phi 6.3 \times 5.4$	2.4	6.6	6.6	2.2	5.4	0.5~0.9
$\Phi 6.3 \times 7.7$	2.4	6.6	6.6	2.2	7.7	0.5~0.9

Rated ripple current multipliers(Unit: mm) 额定纹波修正系数

Frequency 频率 (Hz)	60Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient 系数	0.80	1.00	1.17	1.36	1.50

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化, 每升温 5°C 寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。

UN Series

■ Standard ratings 标准品一览表

WV μF	6.3		10		16		25		35		50	
	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.
0.1											4x5.4	8.8
0.22											4x5.4	15
0.33											4x5.4	25
0.47											4x5.4	47
1.0							4x5.4	8.8	4x5.4	8.8	4x5.4	56
2.2					4x5.4	8.8	5x5.4	15	5x5.4	15	5x5.4	
3.3	4x5.4	14	4x5.4	14	4x5.4	15	5x5.4	25	5x5.4	25	5x5.4	
4.7	4x5.4	25	6.3x5.4	28	6.3x5.4	25	6.3x5.4	47	6.3x5.4	47	6.3x5.4	
10	6.3x5.4	30	6.3x5.4	35	6.3x5.4	47	6.3x7.7	56	6.3x7.7	56	6.3x7.7	
22	6.3x5.4	39	6.3x5.4	39	6.3x5.4	39	6.3x7.7	70				
33	6.3x7.7	72										

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 ΦD x L(mm), 纹波电流於 105°C, 120Hz

Note2: Produce custom product too, which are not found in these tables. 客户定制品不在标准品一览表内