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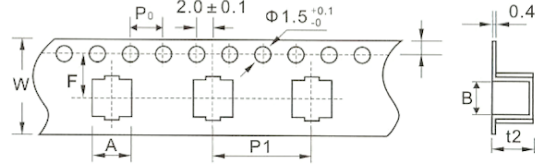
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## 片式鋁電解電容器編帶形狀及尺寸要求

Taping of chip type aluminum electrolytic capacitor and size

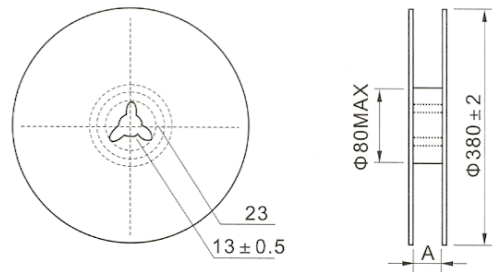
### 編帶 Carrier Tape

規格 Specification	W ±0.30	A	B	P ±0.30	F ±0.30	t <sub>2</sub>
Φ4.0×5.4	12.0	4.7	4.7	8.0	5.5	5.8
Φ5.0×5.4	12.0	6.0	6.0	12.0	5.5	5.8
Φ6.3×5.4	16.0	7.0	7.0	12.0	7.5	5.8
Φ6.3×7.7	16.0	7.0	7.0	12.0	7.5	8.3
Φ8.0×6.5	16.0	8.7	8.7	12.0	7.5	7.0
Φ8.0×10.2	24.0	8.7	8.7	16.0	11.5	11.0
Φ10×10.2	24.0	10.7	10.7	16.0	11.5	11.0



### 編帶包裝卷盤 Reel

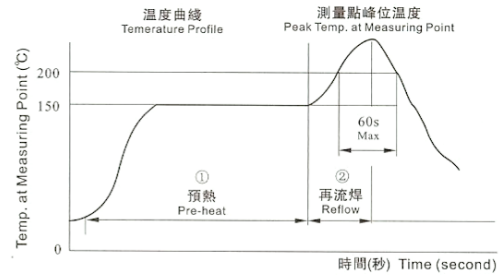
規格 Specification	卷裝數量 Quantity/Reel	盒裝數量 Quantity/Bag	A
Φ4.0×5.4	2000pcs	20000	12.5
Φ5.0×5.4	1000pcs	10000	12.5
Φ6.3×5.4	1000pcs	10000	14.5
Φ6.3×7.7	1000pcs	10000	14.5
Φ8.0×6.5	1000pcs	10000	14.5
Φ8.0×10.2	500pcs	5000	24.5
Φ10.0×10.2	500pcs	5000	24.5



### 焊接方法和再流焊允許範圍

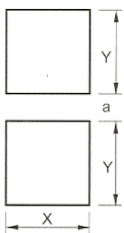
Soldering method and allowable range of the reflow

焊接方式 Soldering Method	再流焊的允許範圍 Allowable Range of Reflow
熱板再流焊 Hot-Plate Reflow	<p>電容器頂部溫度 Peak temp. at capacitor Terminals (°C)</p> <p>再流焊時間(秒) Reflow time(second)</p>
紅外線再流焊 Infrared-Ray Reflow	<p>電容器頂部溫度 Peak temp. at capacitor Terminals (°C)</p> <p>再流焊時間(秒) Reflow time(second)</p>



### 表面安裝推薦尺寸

Recommended land size



尺寸Size	X	Y	a
Φ4	1.6	2.6	1.0
Φ5	1.6	3.0	1.4
Φ6.3	1.6	3.5	2.1
Φ8	2.5	3.5	3.0
Φ10	2.5	4.0	4.0

預熱進行的條件:不超過+150°C和90秒

Pre-heating shall be done less than +150°C and for 90 seconds.

電容器頂部的溫度不慶超過+260°C

The temperature at capacitor top shall not exceed +260°C

電容器頂部的溫度在+200°C以上時, 持續時間不超過60秒

The duration for over +200°C at capacitor top shall not exceed 60 seconds

不同的再流焊方法, 其溫度曲線不同。

The standard temperature profile differs by every reflow method.

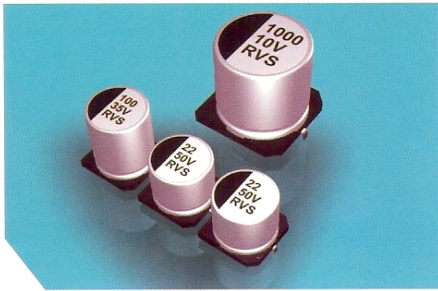
如果電容器承受的條件與現流焊的允許範圍不同, 請與我們聯系。

If the conditions capacitors can bear are different, from the allowable range of reflow.

注: 以上所提供的設計及特性參數僅供參考,任何修改不做預先通知,如在使用上有疑問,請在採購前與我們聯絡,以便提供技術上的協助。

Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

# RVS Series

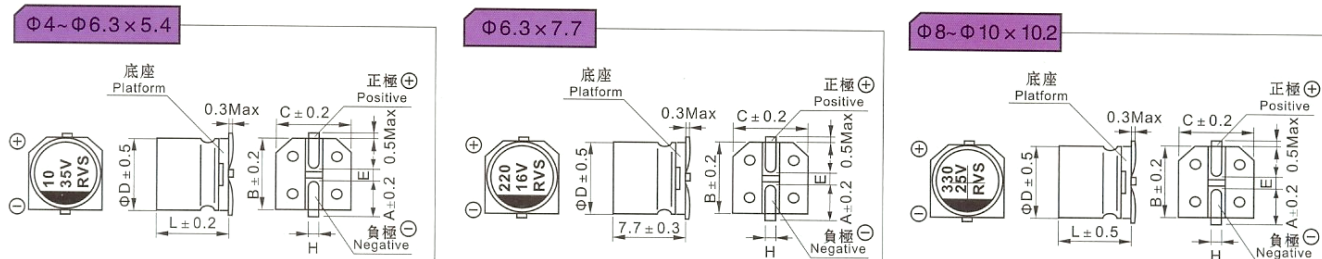


- A. 適用於回流焊  
Reflow soldering available for reflow soldering.
- B. 適用於高密度表面組裝  
Available for high density surface mounting.
- C. 性能穩定、可靠性高  
High stability and reliability.
- D. 壽命：85°C, 2000小時, 標準品  
Lifetime: 85°C, 2000Hr, standard product
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

使用溫度範圍 Operating temperature range	-40~+85°C																				
額定電壓範圍 Rated voltage range	4V~100V DC																				
標稱電容量範圍 Nominal capacitance range	0.1~1500 μF																				
標稱電容量允許偏差 Nominal capacitance tolerance	±20% (120Hz, 20°C)																				
漏電流(20°C) Leakage current	1 ≤ 0.01C <sub>R</sub> U <sub>R</sub> (μA) 或 3 μA 取較大者(2分鐘) Less than 0.01C <sub>R</sub> U <sub>R</sub> (μA) or 3 μA whichever is greater (after 2 minutes)																				
損耗角正切值 Dissipation factor (120Hz 20°C)	<table border="1"> <thead> <tr> <th>U<sub>R</sub>(V)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.35</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>	U <sub>R</sub> (V)	4	6.3	10	16	25	35	50	63	100	tg δ	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
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U <sub>R</sub> (V)	4	6.3	10	16	25	35	50	63	100												
Z <sub>-40°C</sub> /Z <sub>+20°C</sub>	17	10	8	6	4	3	3	3	4												
耐久性 Load life	<p>+85°C施加額定電壓2000小時, 恢復16小時後, 電容器應滿足下要求 After applying rated voltage for 2000 hours at +85°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±30%初始值以內 ≤ ±30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ±30%初始值以內 ≤ ±30% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value														
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高溫儲存 Shelf life	<p>+85°C, 1000小時, 恢復16小時後, 電容器應滿足下要求 After storge for 1000 hours at +85°C and then resumed 16 hours, the dacapitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±10%初始值以內 ≤ ±10% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 2倍初始規定值 ≤ 200% of initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ±10%初始值以內 ≤ ±10% of initial measured value	漏電流值 Leakage	≤ 2倍初始規定值 ≤ 200% of initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value														
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損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value																				
耐焊接熱 Resistance to soldering heat	<p>在250°C的條件下, 電容器應在熱板上保持30秒, 然後從熱板上取出電容器, 讓其在溫室下恢復, 電容器應滿足以下要求。 The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±10%初始值以內 ≤ ±10% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 200%初始規定值 ≤ 200% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ±10%初始值以內 ≤ ±10% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 200%初始規定值 ≤ 200% of initial specified value														
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## 尺寸及印字 Dimensions & Marking



ΦD	A	B	C	E	L	H
4.0	1.8	4.3	4.3	1.0	5.4	0.5~0.8
5.0	2.1	5.3	5.3	1.3	5.4	0.5~0.8
6.3	2.4	6.6	6.6	2.1	5.4	0.5~0.8
6.3	2.4	6.6	6.6	2.1	7.7	0.5~0.8
8.0	2.9	8.3	8.3	3.1	6.5	0.5~0.8
8.0	2.9	8.3	8.3	3.1	10.3	0.8~1.1
10.0	3.2	10.3	10.3	4.2	10.3	0.8~1.1

mm

## 標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表 Nominal capacitance, rated voltage, rated ripple current and case size table

V	4		6.3		10		16		25		35		50		63		100	
μF	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~
0.1													4×5.4	1.3	4×5.4	1.3		
0.22													4×5.4	3.0	4×5.4	3.0		
0.33													4×5.4	4.0	4×5.4	4.0		
0.47													4×5.4	5.0	4×5.4	5.0		
1.0													4×5.4	8.0	4×5.4	8.0		
2.2													4×5.4	12	4×5.4	12		
3.3													4×5.4	15	5×5.4	17	6.3×7.7	28
4.7									4×5.4	16	4×5.4	18	4×5.4	18	5×5.4	20	6.3×7.7	35
10							4×5.4	24	4×5.4	24	5×5.4	24	5×5.4	30	5×5.4	32	6.3×7.7	50
22			4×5.4	28	4×5.4	26	4×5.4	26	5×5.4	40	5×5.4	40	6.3×5.4	47	6.3×7.7	60	8×10.2	90
33	4×5.4	25	4×5.4	30	5×5.4	30	5×5.4	37	5×5.4	47	6.3×5.4	54	6.3×7.7	70	8×10.2	110	10×10.2	120
47	4×5.4	30	4×5.4	33	5×5.4	44	5×5.4	44	6.3×5.4	60	6.3×7.7	70	6.3×7.7	85	8×10.2	130		
68															10×10.2	170		
100	5×5.4	50	5×5.4	55	6.3×5.4	70	6.3×5.4	70	6.3×7.7	120	6.3×7.7	120	8×10.2	190				
150	6.3×5.4	70	6.3×5.4	71	6.3×5.4	79	6.3×7.7	116	8×10.2	210	8×10.2	210	8×10.2	238				
220	6.3×5.4	80	6.3×5.4	88	6.3×7.7	130	6.3×7.7	130	8×10.2	260	8×10.2	260	10×10.2	320				
330	6.3×7.7	135	6.3×7.7	135	8×10.2	270	8×10.2	270	10×10.2	300	10×10.2	360						
470	6.3×7.7	150	8×10.2	280	8×10.2	280	8×10.2	280	10×10.2	400								
680	8×10.2	260	8×10.2	290	10×10.2	370	10×10.2	380										
1000	8×10.2	320	10×10.2	430	10×10.2	430												
1500	10×10.2	347	10×10.2	480														

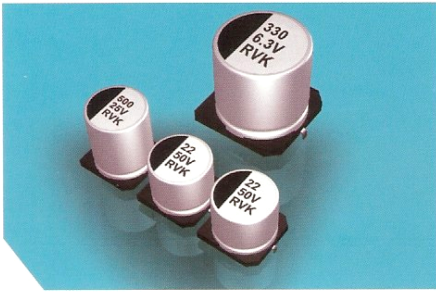
1~額定紋波電流 Rated ripple current (mA, 85°C, 120Hz)

## 額定紋波電流的頻率系數 Frequency coefficient of rated ripple current

頻率 Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
系數 Coefficient	0.1~47 μF	0.80	1.00	1.20	1.50
	100~1500 μF	0.80	1.00	1.10	1.20

注：以上所提供的設計及特性參數僅供參考，任何修改不做預先通知，如在使用上有疑問，請在採購前與我們聯絡，以便提供技術上的協助。  
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# RVK Series



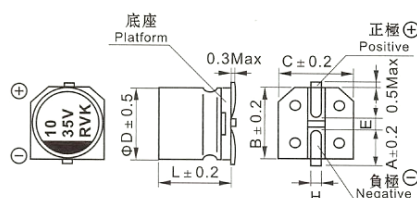
- A. 工作溫度範圍寬(-55°C~+105°C)  
Operating over wide temperature range
- B. 低漏電SMD型, 適用於回流焊型  
The low leakage SMD capacitor type reflow soldering is available
- C. 性能穩定、可靠性高  
High stability and reliability.
- D. 壽命在105°C下為2000小時  
High stability and reliability
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

P4

使用溫度範圍 Operating temperature range	-55~+105°C																					
額定電壓範圍 Rated voltage range	6.3V~50V DC																					
標稱電容量範圍 Nominal capacitance range	0.1~330 μF																					
標稱電容量允許偏差 Nominal capacitance tolerance	±20% (120Hz, 20°C)																					
漏電流(20°C) Leakage current	1 ≤ 0.002C <sub>R</sub> U <sub>R</sub> (μA) 或 0.4 μA 取較大者(2分鐘) Less than 0.002C <sub>R</sub> U <sub>R</sub> (μA) or 0.4 μA whichever is greater (after 2 minutes)																					
損耗角正切值 Dissipation factor (120Hz 20°C)	<table border="1"> <thead> <tr> <th>U<sub>R</sub>(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> </tbody> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	tg δ	0.30	0.24	0.20	0.18	0.16	0.14							
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Z <sub>-40°C/Z+20°C</sub>	10	8	6	4	3	3																
耐久性 Load life	<p>+105°C施加額定電壓2000小時, 恢復16小時後, 電容器應滿足下要求 After applying rated voltage for 2000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±30%初始值以內 ≤ ±30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </table>	電容量變化率 Capacitance change	≤ ±30%初始值以內 ≤ ±30% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value															
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高溫儲存 Shelf life	<p>+105°C, 1000小時, 恢復16小時後, 電容器應滿足下要求 After storage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±30%初始值以內 ≤ ±30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 2倍初始規定值 ≤ 200% of initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </table>	電容量變化率 Capacitance change	≤ ±30%初始值以內 ≤ ±30% of initial measured value	漏電流值 Leakage	≤ 2倍初始規定值 ≤ 200% of initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value															
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損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value																					
耐焊接熱 Resistance to soldering heat	<p>在250°C的條件下, 電容器應在熱板上保持30秒, 然後從熱板上取出電容器, 讓其在溫室下恢復, 電容器應滿足以下要求。 The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±10%初始值以內 ≤ ±10% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> </table>	電容量變化率 Capacitance change	≤ ±10%初始值以內 ≤ ±10% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 初始規定值 ≤ Initial specified value															
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損耗角正切值 Dissipation factor	≤ 初始規定值 ≤ Initial specified value																					

## 尺寸及印字 Dimensions & Marking



mm

ΦD	A	B	C	E	L	H
4.0	1.8	4.3	4.3	1.0	5.4	0.5~0.8
5.0	2.1	5.3	5.3	1.3	5.4	0.5~0.8
6.3	2.4	6.6	6.6	2.1	5.4	0.5~0.8
8.0	2.9	8.3	8.3	3.1	6.5	0.8~1.1

P5

## 標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表 Nominal capacitance, rated voltage, rated ripple current and case size table

V	6.3		10		16		25		35		50		
	μF	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA
0.1												4×5.4	1.0
0.22												4×5.4	2.0
0.33												4×5.4	3.0
0.47												4×5.4	4.0
1.0												4×5.4	8.0
2.2												4×5.4	11
3.3												4×5.4	13
4.7							4×5.4	13	4×5.4	14	6.3×5.4	20	
10				5×5.4	27	4×5.4	20	6.3×5.4	24	6.3×5.4	29	6.3×5.4	33
22	4×5.4	23	6.3×5.4	37	6.3×5.4	37	6.3×5.4	36	6.3×5.4	46	8×6.5	52	
33	6.3×5.4	37	6.3×5.4	41	6.3×5.4	40	6.3×5.4	44	8×6.5	56	8×6.5	71	
47	6.3×5.4	40	8×6.5	64	6.3×5.4	56	8×6.5	52	8×6.5	66			
100	6.3×5.4	57	8×6.5	108	8×6.5	86	8×6.5	90					
220	8×6.5	88											
330	8×6.5	136											

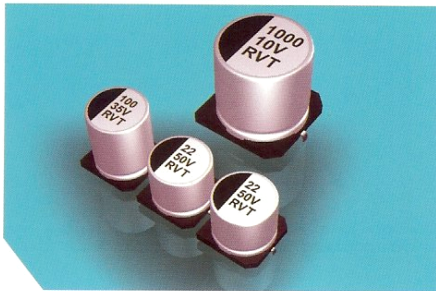
1~額定紋波電流 Rated ripple current (mA, 105°C, 120Hz)

## 額定紋波電流的頻率系數 Frequency coefficient of rated ripple current

頻率 Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
系數 Coefficient	0.70	1.00	1.17	1.36	1.50

注：以上所提供的設計及特性參數僅供參考，任何修改不做預先通知，如在使用上有疑問，請在採購前與我們聯絡，以便提供技術上的協助。  
Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

# RVT Series

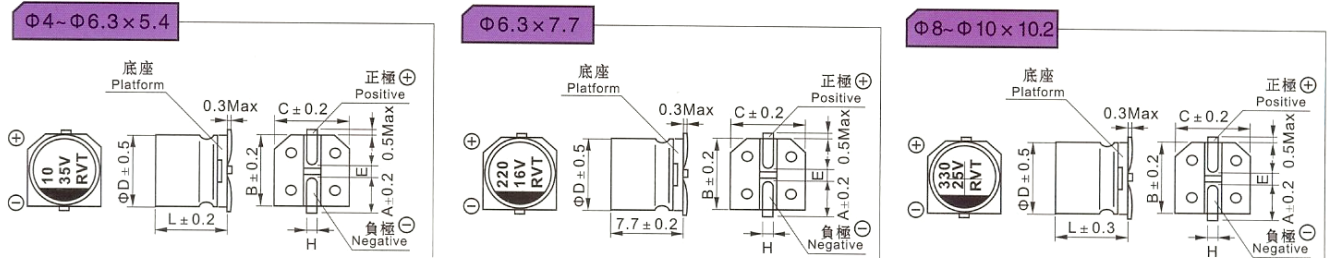


- A. 工作溫度範圍寬(-55°C~+105°C), 105°C 標準品  
Operating over wide temperature range, 105°C standard product
- B. 適用於高密度表面組裝  
Available for high density surface mounting.
- C. 適用於回流焊  
Reflow soldering is available.
- D. 性能穩定、可靠性高  
High stability and reliability.
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

使用溫度範圍 Operating temperature range	-55~+105°C																											
額定電壓範圍 Rated voltage range	6.3V~50V DC																											
標稱電容量範圍 Nominal capacitance range	0.47~330 $\mu$ F																											
標稱電容量允許偏差 Nominal capacitance tolerance	$\pm 20\%$ (120Hz, 20°C)																											
漏電流(20°C) Leakage current	$1 \leq 0.01 C_R U_R (\mu A)$ 或 $3 \mu A$ 取較大者(2分鐘) Less than $0.01 C_R U_R (\mu A)$ or $3 \mu A$ whichever is greater (after 2 minutes)																											
損耗角正切值 Dissipation factor (120Hz 20°C)	<table border="1"> <thead> <tr> <th><math>U_R(V)</math></th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tg <math>\delta</math></td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>	$U_R(V)$	6.3	10	16	25	35	50	63	100	tg $\delta$	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14									
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溫度特性(120Hz) Temperature characteristics impedance ratio(120Hz)	<table border="1"> <thead> <tr> <th><math>U_R(V)</math></th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <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> <td>2</td> <td>3</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> <td>3</td> <td>4</td> </tr> </tbody> </table>	$U_R(V)$	6.3	10	16	25	35	50	63	100	Z-25°C/Z+20°C	4	3	2	2	2	2	2	3	Z-40°C/Z+20°C	10	8	6	4	3	3	3	4
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Z-25°C/Z+20°C	4	3	2	2	2	2	2	3																				
Z-40°C/Z+20°C	10	8	6	4	3	3	3	4																				
耐久性 Load life	<p>+105°C 施加額定電壓1000小時，恢復16小時後，電容器應滿足下要求 After applying rated voltage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td><math>\leq \pm 30\%</math> 初始值以內 <math>\leq \pm 30\%</math> of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td><math>\leq</math> 初始規定值 <math>\leq</math> Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td><math>\leq 300\%</math> 初始規定值 <math>\leq 300\%</math> of initial specified value</td> </tr> </table>	電容量變化率 Capacitance change	$\leq \pm 30\%$ 初始值以內 $\leq \pm 30\%$ of initial measured value	漏電流值 Leakage	$\leq$ 初始規定值 $\leq$ Initial specified value	損耗角正切值 Dissipation factor	$\leq 300\%$ 初始規定值 $\leq 300\%$ of initial specified value																					
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耐焊接熱 Resistance to soldering heat	<p>在250°C的條件下，電容器應在熱板上保持30秒，然後從熱板上取出電容器，讓其在溫室下恢復，電容器應滿足以下要求。 The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td><math>\leq \pm 10\%</math> 初始值以內 <math>\leq \pm 10\%</math> of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td><math>\leq</math> 初始規定值 <math>\leq</math> Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td><math>\leq</math> 初始規定值 <math>\leq</math> Initial specified value</td> </tr> </table>	電容量變化率 Capacitance change	$\leq \pm 10\%$ 初始值以內 $\leq \pm 10\%$ of initial measured value	漏電流值 Leakage	$\leq$ 初始規定值 $\leq$ Initial specified value	損耗角正切值 Dissipation factor	$\leq$ 初始規定值 $\leq$ Initial specified value																					
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## 尺寸及印字 Dimensions & Marking



ΦD	A	B	C	E	L	H
4.0	1.8	4.3	4.3	1.0	5.4	0.5~0.8
5.0	2.1	5.3	5.3	1.3	5.4	0.5~0.8
6.3	2.4	6.6	6.6	2.1	5.4	0.5~0.8
6.3	2.4	6.6	6.6	2.1	7.7	0.5~0.8
8.0	2.9	8.3	8.3	3.1	6.5	0.5~0.8
8.0	2.9	8.3	8.3	3.1	10.3	0.8~1.1
10.0	3.2	10.3	10.3	4.2	10.3	0.8~1.1

標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表  
Nominal capacitance, rated voltage, rated ripple current and case size table

V	6.3		10		16		25		35		50		63		100	
μF (標值)	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~	D×Lmm	1~
0.47											4×5.4	4.0	4×5.4	3.7		
1											4×5.4	8.0	4×5.4	7.2	4×5.4	7.2
2.2											4×5.4	12	4×5.4	12	6.3×5.4	15
3.3									4×5.4	14	4×5.4	14	5×5.4	14	6.3×5.4	22
4.7							4×5.4	14	4×5.4	15	4×5.4	14	5×5.4	17	6.3×5.4	23
											5×5.4	17	6.3×5.4	22	6.3×7.7	38
10					4×5.4	17	4×5.4	15	4×5.4	15	6.3×5.4	25	6.3×7.7	41	8×10.2	80
							5×5.4	21	5×5.4	22			6.3×5.4	26	6.3×7.7	38
22	4×5.4	22	4×5.4	21	4×5.4	21	5×5.4	26			6.3×5.4	40	6.3×7.7	52	8×10.2	100
			5×5.4	26	5×5.4	28	6.3×5.4	37			6.3×5.4	40	6.3×5.4	43	6.3×7.7	90
33	4×5.4	23	4×5.4	23	5×5.4	29	5×5.4	30	6.3×5.4	45	6.3×7.7	63	8×10.2	116	10×10.2	136
	5×5.4	28	5×5.4	34	6.3×5.4	45	6.3×5.4	45	8×6.5	86						
47	4×5.4	26	5×5.4	31	5×5.4	33	6.3×5.4	49	6.3×5.4	54	8×10.2	125	10×10.2	168	10×10.2	148
	5×5.4	34	6.3×5.4	42	6.3×5.4	48	8×6.5	93	6.3×7.7	75	6.3×7.7	66	8×10.2	125		
100	5×5.4	40	5×5.4	40	6.3×5.4	63	6.3×7.7	93	6.3×7.7	87	8×10.2	146	10×10.2	200		
	6.3×5.4	52	6.3×5.4	55	8×6.5	125	6.3×7.7	93	8×10.2	125	10×10.2	178				
150	6.3×5.4	56	6.3×5.4	65	6.3×7.7	100	8×10.2	148	8×10.2	158	10×10.2	178				
	6.3×5.4	69	6.3×7.7	110	6.3×7.7	110			8×10.2	195						
220	6.3×7.7	108	8×6.5	110	8×6.5	110	8×10.2	183	10×10.2	230	10×10.2	230				
							8×10.2	228								
330	6.3×7.7	108	8×10.2	108	8×10.2	201	10×10.2	247								
							10×10.2	248								
470	6.3×7.7	125	8×10.2	214	8×10.2	240	10×10.2	286								
	8×10.2	214	10×10.2	266	10×10.2	300										
680	8×10.2	214	10×10.2	277	10×10.2	322										
	8×10.2	235														
1000	10×10.2	310	10×10.2	320	10×10.2	347										
1500	10×10.2	320														

1-額定紋波電流 Rated ripple current (mA, 105°C, 120Hz)

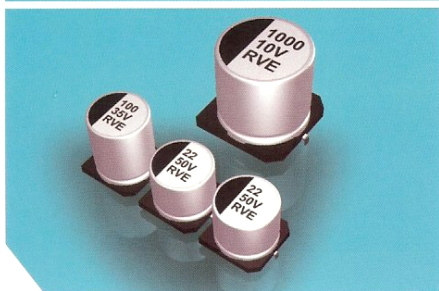
## 額定紋波電流的頻率系數 Frequency coefficient of rated ripple current

頻率 Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
系數 Coefficient	0.70	1.00	1.17	1.36	1.50

注：以上所提供的設計及特性參數僅供參考，任何修改不預先通知，如在使用上有疑問，請在採購前與我們聯絡，以便提供技術上的協助。  
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# RVE Series



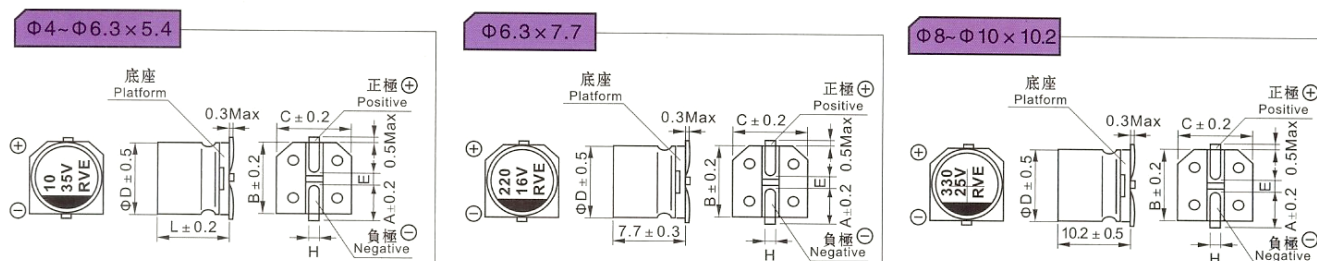
- A. 適用於回流焊  
Reflow soldering available for reflow soldering.
- B. 適用於高密度表面組裝  
Available for high density surface mounting.
- C. 低阻抗品  
Extre lower impedance
- D. 壽命: 105°C, 1000小時  
Lifetime: 105°C, 1000Hr
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

使用溫度範圍 Operating temperature range	-55~+105°C																					
額定電壓範圍 Rated voltage range	6.3V~50V DC																					
標稱電容量範圍 Nominal capacitance range	0.1~1500 μF																					
標稱電容量允許偏差 Nominal capacitance tolerance	±20% (120Hz, 20°C)																					
漏電流(20°C) Leakage current	1 ≤ 0.01 C <sub>R</sub> U <sub>R</sub> (μA) 或 3 μA 取較大者(2分鐘) Less than 0.01 C <sub>R</sub> U <sub>R</sub> (μA) or 3 μA whichever is greater (after 2 minutes)																					
損耗角正切值 Dissipation factor (120Hz 20°C)	<table border="1"> <thead> <tr> <th>U<sub>R</sub>(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </tbody> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	tg δ	0.26	0.20	0.16	0.14	0.12	0.12							
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Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	4	3	2	2	2	2																
Z <sub>-40°C</sub> /Z <sub>+20°C</sub>	12	8	6	4	3	3																
耐久性 Load life	<p>+105°C 施加額定電壓1000小時，恢復16小時後，電容器應滿足下要求 After applying rated voltage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±30% 初始值以內 ≤ ±30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300% 初始規定值 ≤ 300% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ±30% 初始值以內 ≤ ±30% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 300% 初始規定值 ≤ 300% of initial specified value															
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## 尺寸及印字

### Dimensions & Marking



ΦD	A	B	C	E	L	H	mm
4.0	1.8	4.3	4.3	1.0	5.4	0.5~0.8	
5.0	2.1	5.3	5.3	1.3	5.4		
6.3	2.4	6.6	6.6	2.1	5.4		
6.3	2.4	6.6	6.6	2.1	7.7		
8.0	2.9	8.3	8.3	3.1	10.2	0.8~1.1	
10.0	3.2	10.3	10.3	4.2	10.2		

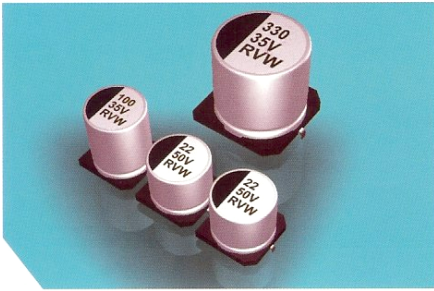
標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表  
Nominal capacitance, rated voltage, rated ripple current and case size table

V	6.3(0J)			10(1A)			16(1C)			25(1E)			35(1V)			50(1H)			
	μF	D×Lmm	Ω	mA	D×Lmm	Ω	mA	D×Lmm	Ω	mA	D×Lmm	Ω	mA	D×Lmm	Ω	mA	D×Lmm	Ω	mA
1.0																			
2.2																			
3.3																	4×5.4	7.3	38
4.7																	4×5.4	7.3	38
10																	4×5.4	7.3	38
22	4×5.4	4.5	50	4×5.4	4.5	50	5×5.4	1.9	80	6.3×5.4	1.1	115	6.3×5.4	1.1	115	6.3×5.4	2.2	103	
33	5×5.4	1.9	80	5×5.4	1.9	80	6.3×5.4	1.1	115	6.3×5.4	1.1	115	6.3×5.4	1.1	115	6.3×5.4	1.7	116	
47	5×5.4	1.9	80	6.3×5.4	1.1	115	6.3×5.4	1.1	115	6.3×7.7	0.85	150	6.3×7.7	0.85	150	6.3×7.7	1.7	116	
100	6.3×5.4	1.1	115	6.3×5.4	1.1	115	6.3×7.7	0.85	150	6.3×7.7	0.85	150	8×10.2	0.43	240	8×10.2	0.85	185	
150	6.3×5.4	1.1	115	6.3×7.7	0.85	150	6.3×7.7	0.85	150	8×10.2	0.43	240	10×10.2	0.23	360	10×10.2	0.45	418	
220	6.3×7.7	0.85	150	6.3×7.7	0.85	150	8×10.2	0.43	240	8×10.2	0.43	240	10×10.2	0.23	360	10×10.2	0.45	418	
330	6.3×7.7	0.85	150	8×10.2	0.43	240	8×10.2	0.43	240	10×10.2	0.23	360	10×10.2	0.23	360	10×10.2	0.45	418	
470	8×10.2	0.43	240	8×10.2	0.43	240	10×10.2	0.23	360	10×10.2	0.23	360							
1000	10×10.2	0.23	360	10×10.2	0.23	360													
1500	10×10.2	0.23	360																

額定紋波電流 Rated ripple current: (mA, 105°C, 100KHz);  
阻抗值 Impedance: (Ω, 20°C, 100KHz)

注：以上所提供的設計及特性參數僅供參考，任何修改不做預先通知，如在使用上有疑問，請在採購前與我們聯絡，以便提供技術上的協助。  
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# RVW Series

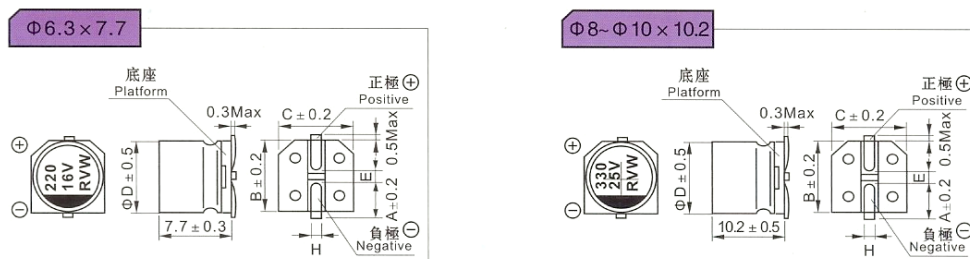


- A. 適用於回流焊  
Reflow soldering available for reflow soldering.
- B. 適用於高密度表面組裝  
Available for high density surface mounting.
- C. 性能穩定、可靠性高  
High stability and reliability.
- D. 壽命：105°C, 2000小時長壽命品  
Lifetime: 105°C, 2000Hr long life product
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

使用溫度範圍 Operating temperature range	-55~+105°C																											
額定電壓範圍 Rated voltage range	6.3V~50V DC																											
標稱電容量範圍 Nominal capacitance range	4.7~1500 μF																											
標稱電容量允許偏差 Nominal capacitance tolerance	±20% (120Hz, 20°C)																											
漏電流(20°C) Leakage current	1 ≤ 0.01 C <sub>N</sub> U <sub>R</sub> (μA) 或 3 μA 取較大者(2分鐘) Less than 0.01 C <sub>N</sub> U <sub>R</sub> (μA) or 3 μA whichever is greater (after 2 minutes)																											
損耗角正切值 Dissipation factor (120Hz 20°C)	<table border="1"> <thead> <tr> <th>U<sub>R</sub>(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100	tg δ	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14									
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溫度特性(120Hz) Temperature characteristics impedance ratio(120Hz)	<table border="1"> <thead> <tr> <th>U<sub>R</sub>(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Z<sub>-25°C</sub>/Z<sub>+20°C</sub></td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z<sub>-40°C</sub>/Z<sub>+20°C</sub></td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100	Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	4	3	2	2	2	2	3	3	Z <sub>-40°C</sub> /Z <sub>+20°C</sub>	8	6	4	4	3	3	4	4
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耐久性 Load life	<p>+105°C施加額定電壓2000小時，恢復16小時後，電容器應滿足下要求 After applying rated voltage for 2000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±30%初始值以內 ≤ ±30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ±30%初始值以內 ≤ ±30% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value																					
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耐焊接熱 Resistance to soldering heat	<p>在250°C的條件下，電容器應在熱板上保持30秒，然後從熱板上取出電容器，讓其在溫室下恢復，電容器應滿足以下要求。 The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ±10%初始值以內 ≤ ±10% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ±10%初始值以內 ≤ ±10% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 初始規定值 ≤ Initial specified value																					
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## 尺寸及印字 Dimensions & Marking



ΦD	A	B	C	E	L	H
6.3	2.5	6.6	6.6	2.1	7.7	0.5~0.8
8.0	2.9	8.3	8.3	3.1	10.2	0.8~1.1
10.0	3.2	10.3	10.3	4.2	10.2	0.8~1.1

mm

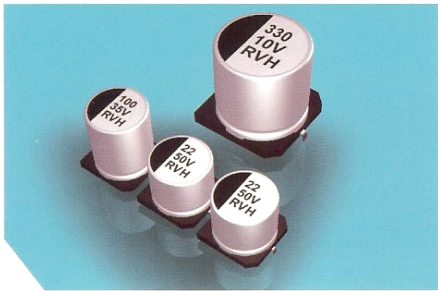
## 標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表 Nominal capacitance, rated voltage, rated ripple current and case size table

V	6.3		10		16		25	
	D × Lmm	105°CmA	D × Lmm	105°CmA	D × Lmm	105°CmA	D × Lmm	105°CmA
100							6 × 7.7	91
220	6.3 × 7.7	105	6.3 × 7.7	105	8 × 10.2 (6.3 × 7.7)	150 (105)	8 × 10.2	175
330	6.3 × 7.7	105	8 × 10.2	196	8 × 10.2	195	10 × 10.2 (8 × 10.2)	240 (220)
470	8 × 10.2	210	8 × 10.2	210	10 × 10.2 (8 × 10.2)	295 (230)	10 × 10.2	280
1000	10 × 10.2 (8 × 10.2)	300 (230)	10 × 10.2	315				
1500	10 × 10.2	315						

V	35		50		63		100	
	D × Lmm	105°CmA	D × Lmm	105°CmA	D × Lmm	105°CmA	D × Lmm	105°CmA
4.7							6 × 7.7	35
10					6.3 × 7.7 (6.3 × 7.7)	39	8 × 10.2 (6.3 × 7.7)	77 (35)
22			6.3 × 7.7	51	8 × 10.2	98 (49)	10 × 10.2 (8 × 10.2)	126 (84)
33			6.3 × 7.7	60	6.3 × 7.7	112	10 × 10.2	133
47	6.3 × 7.7	70	8 × 10.2 (6.3 × 7.7)	120 (63)	10 × 10.2 (8 × 10.2)	160	10 × 10.2	140
100	8 × 10.2 (6.3 × 7.7)	120	10 × 10.2 (8 × 10.2)	170 (63)	10 × 10.2	196		
220	10 × 10.2 (8 × 10.2)	220	10 × 10.2	220				
330	10 × 10.2	245						

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# RVH Series

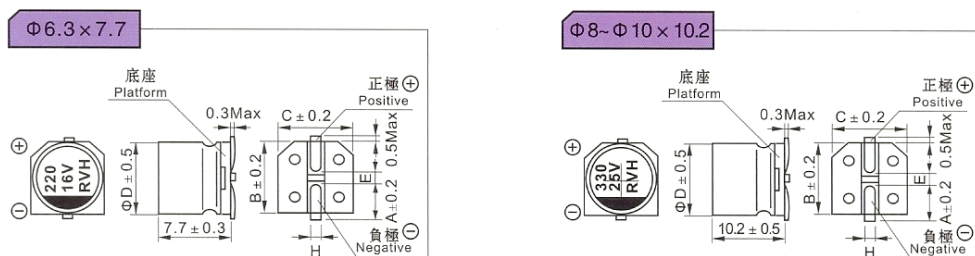


- A. 適用於回流焊  
Reflow soldering available for reflow soldering.
- B. 適用於高密度表面組裝  
Available for high density surface mounting.
- C. 性能穩定、可靠性高  
High stability and reliability.
- D. 壽命: 125°C, 1000小時  
Lifetime: 125°C, 1000Hr
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

使用溫度範圍 Operating temperature range	-40~+125°C											
額定電壓範圍 Rated voltage range	10V~50V DC											
標稱電容量範圍 Nominal capacitance range	10~330 $\mu$ F											
標稱電容量允許偏差 Nominal capacitance tolerance	$\pm 20\%$ (120Hz, 20°C)											
漏電流(20°C) Leakage current	1 $\leq$ 0.01 C <sub>R</sub> U <sub>R</sub> ( $\mu$ A) 或 3 $\mu$ A 取較大者(2分鐘) Less than 0.01C <sub>R</sub> U <sub>R</sub> ( $\mu$ A) or 3 $\mu$ A whichever is greater (after 2 minutes)											
損耗角正切值 Dissipation factor (120Hz 20°C)	U <sub>R</sub> (V)	10	16	25	35	50						
	tg $\delta$	0.24	0.20	0.18	0.16	0.14						
溫度特性(120Hz) Temperature characteristics impedance ratio(120Hz)	U <sub>R</sub> (V)	10	16	25	35	50						
	Z <sub>-25°C</sub> /Z <sub>+20°C</sub>	3	2	2	2	2						
	Z <sub>-40°C</sub> /Z <sub>+20°C</sub>	8	6	4	3	3						
耐久性 Load life	<p>+125°C施加額定電壓1000小時，恢復16小時後，電容器應滿足下要求 After applying rated voltage for 1000 hours at +125°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td><math>\leq \pm 30\%</math> 初始值以內 <math>\leq \pm 30\%</math> of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td><math>\leq</math> 初始規定值 <math>\leq</math> Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td><math>\leq 300\%</math> 初始規定值 <math>\leq 300\%</math> of initial specified value</td> </tr> </table>						電容量變化率 Capacitance change	$\leq \pm 30\%$ 初始值以內 $\leq \pm 30\%$ of initial measured value	漏電流值 Leakage	$\leq$ 初始規定值 $\leq$ Initial specified value	損耗角正切值 Dissipation factor	$\leq 300\%$ 初始規定值 $\leq 300\%$ of initial specified value
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損耗角正切值 Dissipation factor	$\leq 300\%$ 初始規定值 $\leq 300\%$ of initial specified value											
高溫儲存 Shelf life	<p>+125°C, 1000小時，恢復16小時後，電容器應滿足下要求 After storage for 1000 hours at +125°C and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td><math>\leq \pm 30\%</math> 初始值以內 <math>\leq \pm 30\%</math> of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td><math>\leq 5</math> 倍初始規定值 <math>\leq 500\%</math> of initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td><math>\leq 300\%</math> 初始規定值 <math>\leq 300\%</math> of initial specified value</td> </tr> </table>						電容量變化率 Capacitance change	$\leq \pm 30\%$ 初始值以內 $\leq \pm 30\%$ of initial measured value	漏電流值 Leakage	$\leq 5$ 倍初始規定值 $\leq 500\%$ of initial specified value	損耗角正切值 Dissipation factor	$\leq 300\%$ 初始規定值 $\leq 300\%$ of initial specified value
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漏電流值 Leakage	$\leq 5$ 倍初始規定值 $\leq 500\%$ of initial specified value											
損耗角正切值 Dissipation factor	$\leq 300\%$ 初始規定值 $\leq 300\%$ of initial specified value											
耐焊接熱 Resistance to soldering heat	<p>在250°C的條件下，電容器應在熱板上保持30秒，然後從熱板上取出電容器，讓其在溫室下恢復，電容器應滿足以下要求。 The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.</p> <table border="1"> <tr> <td>電容量變化率 Capacitance change</td> <td><math>\leq \pm 10\%</math> 初始值以內 <math>\leq \pm 10\%</math> of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td><math>\leq</math> 初始規定值 <math>\leq</math> Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td><math>\leq</math> 初始規定值 <math>\leq</math> Initial specified value</td> </tr> </table>						電容量變化率 Capacitance change	$\leq \pm 10\%$ 初始值以內 $\leq \pm 10\%$ of initial measured value	漏電流值 Leakage	$\leq$ 初始規定值 $\leq$ Initial specified value	損耗角正切值 Dissipation factor	$\leq$ 初始規定值 $\leq$ Initial specified value
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損耗角正切值 Dissipation factor	$\leq$ 初始規定值 $\leq$ Initial specified value											

## 尺寸及印字 Dimensions & Marking



ΦD	A	B	C	E	L	H
6.3	2.5	6.6	6.6	2.1	7.7	0.5~0.8
8.0	2.9	8.3	8.3	3.1	10.2	0.8~1.1
10.0	3.2	10.3	10.3	4.2	10.2	0.8~1.1

mm

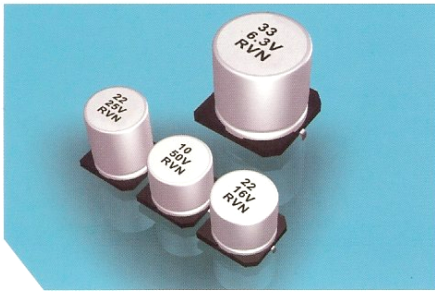
## 標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表 Nominal capacitance, rated voltage, rated ripple current and case size table

WV	10		16		25		35		50	
	D × Lmm	125°CmA	D × Lmm	125°CmA	D × Lmm	125°CmA	D × Lmm	125°CmA	D × Lmm	125°CmA
10									6.3 × 7.7	25
22									6.3 × 7.7	50
33							6.3 × 7.7	53	8 × 10.2	74
47					6.3 × 7.7	56	8 × 10.2	79	10 × 10.2	94
100	6.3 × 7.7	62	8 × 10.2	89	8 × 10.2	84	10 × 10.2	101		
220	8 × 10.2	93	10 × 10.2	113						
330	10 × 10.2	118								

1-額定紋波電流 Rated ripple current (mA, 105°C, 120Hz)

注：以上所提供的設計及特性參數僅供參考，任何修改不做預先通知，如在使用上有疑問，請在採購前與我們聯絡，以便提供技術上的協助。  
Note: all designs and specifications are for reference only and are subject to change without prior notice, if any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

# RVN Series



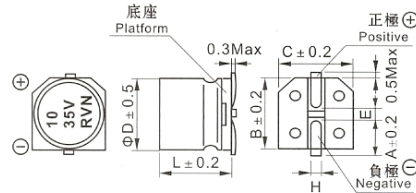
- A. 雙極性  
Bi-polarized
- B. 適用於回流焊  
Reflow soldering is available.
- C. 適用於高密度表面組裝  
Available for high density surface mounting.
- D. 性能穩定、可靠性高  
High stability and reliability.
- E. ROHS.REACH指令已對應完畢  
Adapted to the ROHS.REACH directive.

## 主要技術性能 Specifications

使用溫度範圍 Operating temperature range	-55~+105℃																					
額定電壓範圍 Rated voltage range	6.3V~50V DC																					
標稱電容量範圍 Nominal capacitance range	0.1~100 μ F																					
標稱電容量允許偏差 Nominal capacitance tolerance	± 20% (120Hz, 20℃)																					
漏電流(20℃) Leakage current	1 ≤ 0.02C <sub>R</sub> U <sub>R</sub> (μ A) 或 6 μ A 取較大者(2分鐘) Less than 0.02C <sub>R</sub> U <sub>R</sub> (μ A) or 6 μ A whichever is greater (after 2 minutes)																					
損耗角正切值 Dissipation factor (120Hz 20℃)	<table border="1"> <thead> <tr> <th>U<sub>R</sub>(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tg δ</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> </tbody> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	tg δ	0.35	0.26	0.24	0.22	0.20	0.20							
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Z <sub>-25℃</sub> /Z <sub>+20℃</sub>	4	3	2	2	2	2																
Z <sub>-40℃</sub> /Z <sub>+20℃</sub>	10	8	6	4	3	3																
耐久性 Load life	<p>+105℃施加額定電壓1000小時，(每250小時換向一次)恢復16小時後，電容器應滿足下要求 After applying rated voltage for 1000 hours at +105℃, (Change direction one time at 250 hours each) and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ± 30%初始值以內 ≤ ± 30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 初始規定值 ≤ Initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ± 30%初始值以內 ≤ ± 30% of initial measured value	漏電流值 Leakage	≤ 初始規定值 ≤ Initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value															
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高溫儲存 Shelf life	<p>+105℃，500小時，恢復16小時後，電容器應滿足下要求 After storage for 500 hours at +105℃ and then resumed 16 hours, the capacitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>電容量變化率 Capacitance change</td> <td>≤ ± 30%初始值以內 ≤ ± 30% of initial measured value</td> </tr> <tr> <td>漏電流值 Leakage</td> <td>≤ 2倍初始規定值 ≤ 200% of initial specified value</td> </tr> <tr> <td>損耗角正切值 Dissipation factor</td> <td>≤ 300%初始規定值 ≤ 300% of initial specified value</td> </tr> </tbody> </table>	電容量變化率 Capacitance change	≤ ± 30%初始值以內 ≤ ± 30% of initial measured value	漏電流值 Leakage	≤ 2倍初始規定值 ≤ 200% of initial specified value	損耗角正切值 Dissipation factor	≤ 300%初始規定值 ≤ 300% of initial specified value															
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## 尺寸及印字

### Dimensions & Marking



mm

ΦD	A	B	C	E	L±0.1	H
4	1.8	4.3	4.3	1.0	5.4	0.5~0.8
5	2.1	5.3	5.3	1.3	5.4	
6.3	2.4	6.6	6.6	2.1	5.4	
6.3	2.4	6.6	6.6	2.1	7.7	

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## 標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表

Nominal capacitance, rated voltage, rated ripple current and case size table

V	6.3		10		16		25		35		50	
	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA	D×Lmm	1~mA
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	2.8
0.47											4×5.4	3.4
1.0							4×5.4	8.8	4×5.4	8.8	4×5.4	5.5
2.2					4×5.4	8.8	5×5.4	15	5×5.4	15	5×5.4	10
3.3	4×5.4	14	4×5.4	14	4×5.4	15	5×5.4	25	5×5.4	25	5×5.4	13
4.7	4×5.4	25	6.3×5.4	28	6.3×5.4	25	6.3×5.4	47	6.3×5.4	47	6.3×5.4	16
10	6.3×5.4	30	6.3×5.4	35	6.3×5.4	47	6.3×7.7	56	6.3×7.7	56	6.3×7.7	32
22	6.3×5.4	39	6.3×5.4	39	6.3×5.4	39	6.3×7.7	70				
33	6.3×7.7	72										
47												
100												

1~額定紋波電流 Rated ripple current (mA, 105°C, 120Hz)

## 額定紋波電流的頻率系數

### FFrequency coefficient of rated ripple current

頻率 Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
系數 Coefficient	0.80	1.00	1.17	1.30	1.50

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