

**RVN Series**

**BI-POLARIZED 双极性品**

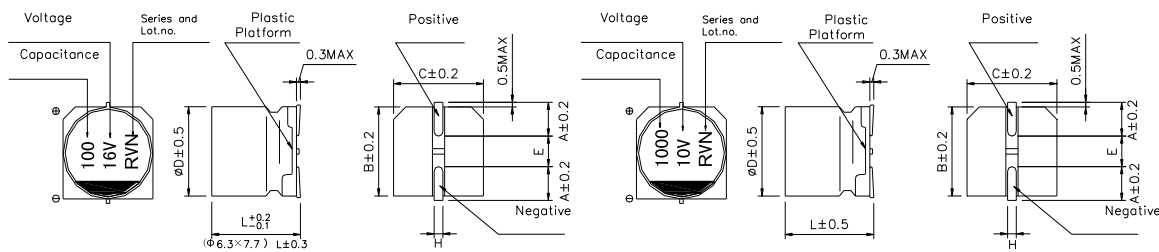
- Bi-polarized with general temperature +85°C  
双极性和适用于+85°C的常规温度
- Load life of 1000 hours  
负荷寿命1000小时
- Comply with the RoHS directive  
符合 RoHS 指令



**主要技术性能 Specification**

项目 Item	特性 Performance Characteristics																
使用温度范围 Operating temperature range	-40 ~ +85°C																
额定电压范围 Rated voltage range	6.3 ~ 50V																
标称容量范围 Nominal capacitance range	0.1 ~ 220μF																
标称容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)																
漏电流 Leakage current	$I \leq 0.01CV$ 或 $3(\mu A)$ 2分钟 取较大者 ( at 20°C, after 2 minutes ) (whichever is greater)	$I \leq 0.02CV + 15 (\mu A)$ 1分钟 ( 1 minute )															
损耗角正切值 ( tg δ ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>6.3</td> <td>10</td> <td>16, 25</td> <td>35, 50</td> </tr> <tr> <td>tg δ</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> </tr> </table>		U <sub>R</sub> (V)	6.3	10	16, 25	35, 50	tg δ	0.24	0.20	0.17	0.15					
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温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>6.3</td> <td>10</td> <td>16, 25</td> <td>35, 50</td> </tr> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table>		U <sub>R</sub> (V)	6.3	10	16, 25	35, 50	Z(-25°C) / Z(20°C)	4	3	2	2	Z(-40°C) / Z(20°C)	8	6	4	3
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耐久性 Load life	After 1000 hours application of the rated voltage at 85°C (the polarity needs to exchange every 250 hours), they meet the characteristics listed below. 在85°C环境中施加额定工作电压1000小时（每250小时必须转换一次极性）后，电容器的特征符合下表的要求。 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2times of the initial specified value																
高温贮存 Shelf life	+105°C, 1000小时贮存后, 恢复16小时后: After storage for 1000 hours at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±10%初始测量值以内 10% of the initial measured value 漏电流 Leakage current : ≤2倍初始规定值 ≤2times of the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2times of the initial specified value																

**外形图及尺寸图 Case size table**



\*1. Voltage mark for 6.3V is [6V]      6.3V的产品标识为 [6V]  
 \*2. Applicable to ∅6.3×7.7      适用于∅6.3×7.7  
 \*3. Applicable to ∅8×10.5~∅10      适用于∅8×10.5~∅10

∅D x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E ± 0.2	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7

## RVN Series

## ■ 尺寸 Dimensions

μF	WV Code 代码	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1											4 × 5.4	1.0
0.22	R22											4 × 5.4	2.0
0.33	R33											4 × 5.4	2.8
0.47	R47											4 × 5.4	4.0
1	010											4 × 5.4	8.4
2.2	2R2									4 × 5.4	8.4	5 × 5.4	13
3.3	3R3							5 × 5.4	12	5 × 5.4	16	5 × 5.4	17
4.7	4R7					4 × 5.4	12	5 × 5.4	16	5 × 5.4	18	6.3 × 5.4	20
10	100			4 × 5.4	17	5 × 5.4	23	6.3 × 5.4	27	6.3 × 5.4	29	6.3 × 7.7	36
22	220	5 × 5.4	28	6.3 × 5.4	33	6.3 × 5.4	37	6.3 × 7.7	50	6.3 × 7.7	54		
33	330	6.3 × 5.4	37	6.3 × 5.4	41	6.3 × 5.4	49	6.3 × 7.7	61				
47	470	6.3 × 5.4	45	6.3 × 7.7	61	6.3 × 7.7	75					Case size 尺寸	Ripple current 纹波电流
100	101	6.3 × 7.7	82	6.3 × 7.7	85								

•Case size  $\varnothing D \times L$ (mm), ripple current (mA rms) at 85°C 120Hz •尺寸 $\varnothing D \times L$ (mm), 纹波电流 (mA rms)於 85°C 120Hz

## ■ 纹波电流的相关参数 Multiplier For Ripple Current

Frequency 频率	-50Hz	120Hz	300Hz	1KHz	10KHz-
Coefficient 系数	0.70	1.00	1.17	1.36	1.50