

# RW Series

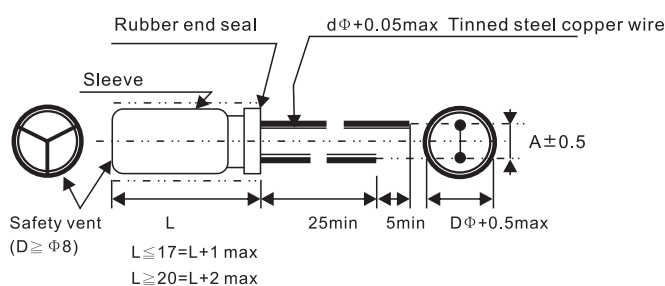
• 85°C, 2000~3000 hours standard series (紋波疊加)



• SPECIFICATIONS

| Items                              | Characteristics                                                                                                                                                   |                                        |      |      |      |      |        |           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------|------|------|------|--------|-----------|
| Category<br>Temperature Range      | -40 to +85°C                                                                                                                                                      |                                        |      |      |      |      |        |           |
| Rated Voltage Range                | 160v to 450Vdc                                                                                                                                                    |                                        |      |      |      |      |        |           |
| Capacitance Tolerance              | ± 20% (M) (at 20°C ,120Hz)                                                                                                                                        |                                        |      |      |      |      |        |           |
| Leakage Current                    | I=0.01CV + 10 µA , whichever is greater.<br>Where, I :Max. Leakage current (µA).<br>C : Nominal capacitance (µF) .V :Rated voltage(V) (at 20°C , after 2 minutes) |                                        |      |      |      |      |        |           |
| Dissipation Factor (tan δ )        | Rated voltage (Vdc)                                                                                                                                               | 160V                                   | 200V | 250V | 350V | 400V | 450V   |           |
|                                    | tan δ (Max.)                                                                                                                                                      | 0.15                                   | 0.15 | 0.15 | 0.20 | 0.20 | 0.20   |           |
| Low Temperature<br>Characteristics | Impedance ration max at 120Hz                                                                                                                                     |                                        |      |      |      |      |        |           |
|                                    | Working voltage                                                                                                                                                   | 160v                                   | 200v | 250v | 350v | 400v | 450v   |           |
|                                    | Z-25°C/ Z+20°C                                                                                                                                                    | 4                                      | 4    | 7    | 7    | 7    | 15     |           |
| Load. Life                         | The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage is applied for the specified at 85°C                   |                                        |      |      |      |      |        |           |
|                                    | Capacitance change                                                                                                                                                | ≤ ±20% of the initial value            |      |      |      |      | φ D    | load life |
|                                    | DF (tan δ )                                                                                                                                                       | ≤ 200 % of the initial specified value |      |      |      |      | ~8 φ   | 2000      |
|                                    | Leakage current                                                                                                                                                   | ≤ The initial specified value          |      |      |      |      | 10 φ ~ | 3000      |
| Shelf Life                         | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 85°C without voltage applied.      |                                        |      |      |      |      |        |           |
|                                    | Capacitance change                                                                                                                                                | ≤ ±20% of the initial value            |      |      |      |      |        |           |
|                                    | DF (tan δ )                                                                                                                                                       | ≤ 200 % of the initial specified value |      |      |      |      |        |           |
|                                    | Leakage current                                                                                                                                                   | ≤ The initial specified value          |      |      |      |      |        |           |
| Ripple Current<br>Multiplier       | Temperature coefficient                                                                                                                                           |                                        |      |      |      |      |        |           |
|                                    | Temperature(°C)                                                                                                                                                   | ~55                                    | 60   | 70   | 85   |      |        |           |
|                                    | Factor                                                                                                                                                            | 1.65                                   | 1.5  | 1.3  | 1    |      |        |           |
|                                    | Frequency coefficient                                                                                                                                             |                                        |      |      |      |      |        |           |
|                                    | cap \ freq                                                                                                                                                        | 60                                     | 120  | 1k   | 10k  | 100k |        |           |
|                                    | ~100                                                                                                                                                              | 0.70                                   | 1.00 | 1.40 | 1.50 | 1.50 |        |           |
| 100up                              | 0.75                                                                                                                                                              | 1.00                                   | 1.30 | 1.35 | 1.35 |      |        |           |

• Diagram: (Unit: mm)



| Body Dia ΦD  | 6   | 8   | 10     | 13     |     | 16     | 18  | 22  |
|--------------|-----|-----|--------|--------|-----|--------|-----|-----|
|              |     |     | L ≤ 21 | L ≥ 25 |     |        |     |     |
| Lead Dia Φd  | 0.5 | 0.6 | 0.6    | 0.8    | 0.8 | 0.8    | 0.8 | 0.8 |
| Lead Space A | 2.5 | 3.5 | 5      |        | 7.5 | 7.5/10 | 10  |     |

◆ RW series 85°C 中高壓標準品

● STANDARD RATING

| Vdc<br>μF | 160    |        | 200            |        | 250    |        | 350    |        | 400            |            | 450    |        |
|-----------|--------|--------|----------------|--------|--------|--------|--------|--------|----------------|------------|--------|--------|
|           | D*L    | Ripple | D*L            | Ripple | D*L    | Ripple | D*L    | Ripple | D*L            | Ripple     | D*L    | Ripple |
| 0.47      | 6.3*11 | 15     | 6.3*11         | 16     | 6.3*11 | 14     | 6.3*11 | 18     | 6.3*11         | 15         | 6.3*11 | 18     |
| 1         | 6.3*11 | 24     | 6.3*11         | 25     | 6.3*11 | 21     | 6.3*11 | 27     | 6.3*11         | 22         | 6.3*11 | 25     |
| 2.2       | 6.3*11 | 34     | 6.3*11         | 37     | 8*12   | 49     | 8*12   | 49     | 8*12           | 33         | 8*12   | 45     |
| 3.3       | 8*12   | 50     | 8*12           | 47     | 8*12   | 60     | 8*12   | 60     | 8*12           | 40         | 10*13  | 65     |
| 4.7       | 8*12   | 60     | 8*12           | 55     | 8*12   | 72     | 8*12   | 75     | 8*12           | 56         | 10*17  | 75     |
| 10        | 8*12   | 82     | 10*12          | 110    | 10*17  | 138    | 10*17  | 130    | 10*17          | 140        | 10*20  | 140    |
| 22        | 10*17  | 150    | 10*20          | 168    | 10*25  | 230    | 13*21  | 255    | 13*21          | 240        | 13*25  | 300    |
| 33        | 10*20  | 240    | 13*20          | 245    | 13*25  | 348    | 13*25  | 345    | 13*20<br>13*25 | 340<br>365 | 16*25  | 350    |
| 47        | 13*20  | 310    | 13*20          | 340    | 13*25  | 468    | 16*25  | 380    | 16*25          | 445        | 16*30  | 460    |
| 68        | 13*25  | 420    | 13*25          | 440    | 16*25  | 536    | 16*32  | 550    | 16*32          | 495        | 18*30  | 520    |
| 100       | 13*32  | 540    | 16*25          | 600    | 16*32  | 732    | 18*36  | 640    | 18*36          | 600        | 18*40  | 630    |
| 120       | 18*30  | 612    | 18*30<br>18*36 | 680    | 16*32  | 762    | 18*36  | 780    | 18*36          | 620        | 18*40  | 650    |
| 150       | 18*36  | 720    | 18*36          | 820    | 18*32  | 870    | 22*30  | 880    | 22*30          | 630        |        |        |
| 180       | 18*36  | 828    | 18*30<br>18*36 | 952    | 18*36  | 980    | 22*40  | 985    |                |            |        |        |
| 220       | 18*36  | 900    | 18*36          | 1010   | 18*40  | 1050   |        |        |                |            |        |        |
| 260       | 18*36  | 960    | 18*36          | 1030   |        |        |        |        |                |            |        |        |
| 330       | 18*36  | 1000   | 18*36          | 1080   |        |        |        |        |                |            |        |        |
| 390       |        |        | 18*36          | 1112   |        |        |        |        |                |            |        |        |
| 470       |        |        | 8*40           | 1200   |        |        |        |        |                |            |        |        |

Maximum Ripple Current: Unit mA.rms, 85°C 120Hz. Size: D φ x L (mm)

Chip Type SMD  
Miniature Type  
General Purpose  
High Frequency Low Impedance  
High Voltage High Reliability  
Non-polar Type  
Large Size Snap-in  
Large Size Screw  
X Metallized Polypropylene Film Capacitors