

# RVT/UT/VT

Wide temperature Standard  
宽温标准品

## Features

105°C, 2000 hours assured.

Available for high density surface mounting.

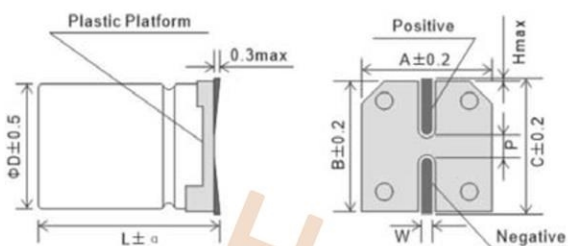
High stability and reliability.



## Specifications

| Item                            | Condition                                                                |                                        | Specifications                              |      |      |      |      |      |      |      |
|---------------------------------|--------------------------------------------------------------------------|----------------------------------------|---------------------------------------------|------|------|------|------|------|------|------|
| Category Temperature Range(°C)  | —                                                                        |                                        | -55°C ~ +105°C                              |      |      |      |      |      |      |      |
| Capacitance Tolerance (%)       | 120Hz, 20°C                                                              |                                        | ±20%                                        |      |      |      |      |      |      |      |
| Rated Voltage (V)               | —                                                                        |                                        | 6.3                                         | 10   | 16   | 25   | 35   | 50   | 63   | 100  |
| Dissipation Factor (tanδ)       | 120Hz, 20°C<br>(Max.)                                                    | tanδ                                   | 0.30                                        | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.14 | 0.14 |
|                                 |                                                                          | Notes                                  | Exceeding 1,000uF, +0.02 every 1,000uF      |      |      |      |      |      |      |      |
| Leakage Current (LC)            | After 2 minutes, 20°C (uA, Max.)                                         |                                        | 0.01CV or 3uA, whichever is greater.        |      |      |      |      |      |      |      |
| Low Temperature Characteristics | Impedance Ratio<br>(Max.)                                                | Z <sub>-25°C</sub> /Z <sub>+20°C</sub> | 5                                           | 4    | 3    | 2    | 2    | 2    | 2    | 2    |
|                                 |                                                                          | Z <sub>-40°C</sub> /Z <sub>+20°C</sub> | 10                                          | 8    | 6    | 4    | 3    | 3    | 3    | 3    |
| Endurance                       | 105°C,<br>Rated Voltage<br>Applied<br>(With the rated<br>ripple current) | Hours                                  | 2,000                                       |      |      |      |      |      |      |      |
|                                 |                                                                          | ΔC/C                                   | Within ±30% of initial value                |      |      |      |      |      |      |      |
|                                 |                                                                          | tanδ                                   | 300% or less of the initial specified value |      |      |      |      |      |      |      |
|                                 |                                                                          | LC                                     | The initial specified value or less         |      |      |      |      |      |      |      |
| Shelf life                      | 105°C                                                                    | Hours                                  | 1,000                                       |      |      |      |      |      |      |      |
|                                 |                                                                          | Other Items                            | same as those for the endurance.            |      |      |      |      |      |      |      |

## Dimensions



| D   | L    | A    | B    | C    | P   | α    | W       |
|-----|------|------|------|------|-----|------|---------|
| 4   | 5.7  | 4.3  | 4.3  | 5.0  | 1.0 | ±0.3 | 0.5-0.8 |
| 5   | 5.7  | 5.3  | 5.3  | 6.0  | 1.5 | ±0.3 | 0.5-0.8 |
| 6.3 | 5.7  | 6.6  | 6.6  | 7.3  | 2.0 | ±0.3 | 0.5-0.8 |
| 6.3 | 7.7  | 6.6  | 6.6  | 7.3  | 2.0 | ±0.3 | 0.5-0.8 |
| 8   | 10.5 | 8.3  | 8.3  | 9.0  | 3.1 | ±0.5 | 0.7-1.2 |
| 10  | 10.5 | 10.3 | 10.3 | 11.0 | 4.7 | ±0.5 | 0.7-1.2 |

## Rated Ripple Current Multipliers

| Frequency (Hz)   | 50   | 120  | 1k   | 10k up |
|------------------|------|------|------|--------|
| Capacitance (uF) |      |      |      |        |
| Under 100        | 0.70 | 1.00 | 1.35 | 1.50   |
| 100 ~ 2200uF     | 0.80 | 1.00 | 1.20 | 1.30   |

**Note:** All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety contact us immediately for technical assistance before purchase.

注：以上所提供的设计及特性参数仅供参考，任何修改不作预先通知，如有使用上任何疑问，请在采购前与我们联系，以便提供技术上的协助。

## ■ Dimensions

| uF   | 6.3v (0J) |      | 10v (1A) |      | 16v (1C) |      | 25v (1E) |      | 35v (1V) |      | 50v (1H) |      | 63v (1J) |      | 100v (2A) |      |
|------|-----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|-----------|------|
|      | 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. | ΦD x L   | R.C. | ΦD x L    | R.C. |
| 1.0  |           |      |          |      |          |      |          |      |          |      | 4x5.7    | 7    | 4x5.7    | 7    | 4x5.7     | 7    |
| 2.2  |           |      |          |      |          |      |          |      |          |      | 4x5.7    | 11   | 4x5.7    | 11   | 4x5.7     | 9    |
|      |           |      |          |      |          |      |          |      |          |      |          |      |          |      | 5x5.8     | 11   |
| 3.3  |           |      |          |      |          |      |          |      | 4x5.7    | 13   | 4x5.7    | 13   | 5x5.7    | 13   | 5x5.8     | 14   |
| 4.7  |           |      |          |      |          |      | 4x5.7    | 13   | 4x5.7    | 14   | 4x5.7    | 13   | 5x5.7    | 16   | 5x5.8     | 16   |
|      |           |      |          |      |          |      |          |      |          |      | 5x5.7    | 16   |          |      | 6.3x5.7   | 21   |
| 6.8  |           |      |          |      |          |      | 4x5.7    | 14   | 4x5.7    | 14   | 4x5.7    | 14   | 5x5.7    | 17   | 6.3x5.7   | 21   |
|      |           |      |          |      |          |      |          |      |          |      | 5x5.7    | 17   |          |      |           |      |
| 10   |           |      |          |      | 4x5.7    | 18   | 4x5.7    | 14   | 4x5.7    | 14   | 5x5.7    | 18   | 5x5.7    | 19   | 6.3x5.7   | 35   |
|      |           |      |          |      |          |      | 5x5.7    | 20   | 5x5.7    | 21   | 6.3x5.7  | 24   | 6.3x5.7  | 24   | 6.3x7.7   | 50   |
| 22   |           |      | 4x5.7    | 20   | 4x5.7    | 20   | 4x5.7    | 19   | 5x5.7    | 30   | 6.3x5.7  | 42   | 6.3x5.7  | 40   | 6.3x7.7   | 60   |
|      |           |      | 5x5.7    | 25   | 5x5.7    | 27   | 5x5.7    | 25   | 6.3x5.7  | 38   | 6.3x7.7  | 51   | 6.3x7.7  | 49   | 8x10.5    | 84   |
| 33   | 4x5.7     | 22   | 4x5.7    | 22   | 4x5.7    | 22   | 4x5.7    | 22   | 5x5.7    | 34   | 6.3x5.7  | 45   | 6.3x7.7  | 53   | 8x10.5    | 90   |
|      |           |      | 5x5.7    | 30   | 5x5.7    | 28   | 5x5.7    | 29   | 6.3x5.7  | 42   | 6.3x7.7  | 60   | 8x10.5   | 112  | 10x10.5   | 133  |
| 47   | 4x5.7     | 25   | 4x5.7    | 25   | 5x5.7    | 31   | 5x5.7    | 35   | 6.3x5.7  | 50   | 6.3x7.7  | 63   | 6.3x7.7  | 75   | 10x10.5   | 140  |
|      | 5x5.7     | 33   | 5x5.7    | 30   | 6.3x5.7  | 48   | 6.3x5.7  | 48   | 6.3x7.7  | 70   |          |      | 8x10.5   | 119  |           |      |
| 68   | 4x5.7     | 25   | 5x5.7    | 40   | 5x5.7    | 31   | 6.3x5.7  | 48   | 6.3x5.7  | 50   | 6.3x7.7  | 63   | 8x10.5   | 125  | 10x10.5   | 155  |
|      | 5x5.7     | 33   |          |      | 6.3x5.7  | 48   |          |      | 6.3x7.7  | 70   |          |      |          |      | 10x12.5   | 180  |
| 100  | 5x5.7     | 39   | 5x5.7    | 45   | 6.3x5.7  | 60   | 6.3x5.7  | 72   | 6.3x7.7  | 84   | 8x10.5   | 140  | 8x10.5   | 135  |           |      |
|      | 6.3x5.7   | 50   | 6.3x5.7  | 53   |          |      | 6.3x7.7  | 91   | 8x10.5   | 120  |          |      | 10x10.5  | 195  |           |      |
| 150  | 5x5.7     | 45   | 6.3x5.7  | 62   | 6.3x5.7  | 65   | 6.3x7.7  | 100  | 6.3x7.7  | 95   | 8x10.5   | 155  | 10x10.5  | 205  |           |      |
|      | 6.3x5.7   | 55   |          |      | 6.3x7.7  | 95   |          |      | 8x10.5   | 155  | 10x10.5  | 170  | 10x12.5  | 225  |           |      |
| 220  | 6.3x5.7   | 67   | 6.3x5.7  | 70   | 6.3x7.7  | 110  | 6.3x7.7  | 120  | 8x10.5   | 190  | 10x10.5  | 220  |          |      |           |      |
|      | 6.3x7.7   | 105  | 6.3x7.7  | 105  |          |      | 8x10.5   | 175  | 10x10.5  | 220  |          |      |          |      |           |      |
| 330  | 6.3x7.7   | 105  | 6.3x7.7  | 130  | 6.3x7.7  | 120  | 8x10.5   | 220  | 8x10.5   | 225  |          |      |          |      |           |      |
|      |           |      |          |      | 8x10.5   | 195  | 10x10.5  | 240  | 10x10.5  | 245  |          |      |          |      |           |      |
| 470  | 6.3x7.7   | 120  | 6.3x7.7  | 150  | 8x10.5   | 230  | 8x10.5   | 240  | 10x10.5  | 320  |          |      |          |      |           |      |
|      | 8x10.5    | 210  | 8x10.5   | 210  |          |      | 10x10.5  | 280  | 10x12.5  | 375  |          |      |          |      |           |      |
| 680  | 8x10.5    | 210  | 8x10.5   | 240  | 8x10.5   | 255  | 10x10.5  | 350  |          |      |          |      |          |      |           |      |
|      |           |      | 10x10.5  | 270  | 10x10.5  | 315  | 10x12.5  | 400  |          |      |          |      |          |      |           |      |
| 1000 | 8x10.5    | 230  | 8x10.5   | 260  | 10x10.5  | 330  |          |      |          |      |          |      |          |      |           |      |
|      | 10x10.5   | 300  | 10x10.5  | 315  | 10x12.5  | 390  |          |      |          |      |          |      |          |      |           |      |
| 1500 | 10x10.5   | 315  | 10x12.5  | 460  |          |      |          |      |          |      |          |      |          |      |           |      |
|      | 10x12.5   | 450  |          |      |          |      |          |      |          |      |          |      |          |      |           |      |
| 2200 | 10x10.5   | 350  |          |      |          |      |          |      |          |      |          |      |          |      |           |      |
|      | 10x12.5   | 520  |          |      |          |      |          |      |          |      |          |      |          |      |           |      |

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

Note2: Produce custom product too, which are not found in these tables.

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