

### GENERAL TECHNICAL CHARACTERISTICS 技术特性

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Reference standards 参考标准 | IEC 61071, IEC 60068                               |
| Dielectric 介质材料          | Polypropylene film                                 |
| Construction 封装结构        | Dry construction, Non-inductive type               |
| Case 外壳材料                | Polyester tape wrapping, UL94 V-0 material filling |
| Leads 引出端                | Tinned copper wire                                 |

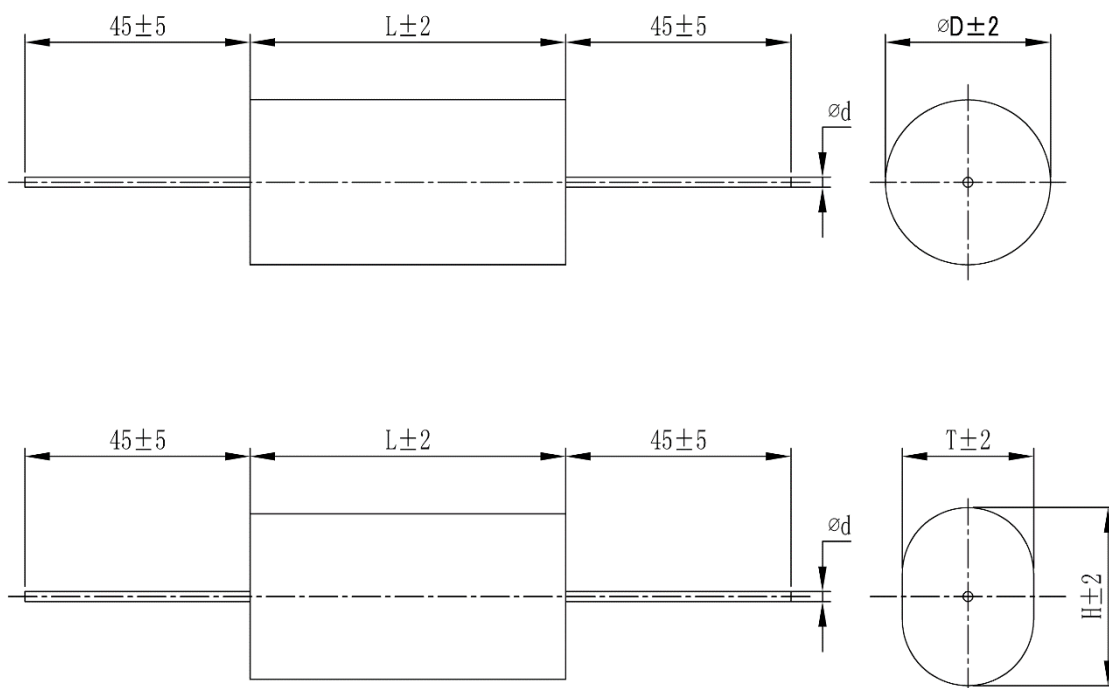
### ELECTRICAL CHARACTERISTICS 电气特性

|                              |                                                                                 |
|------------------------------|---------------------------------------------------------------------------------|
| Operating temperature 工作温度范围 | - 40 to + 85 °C                                                                 |
| Capacitance range 容量范围       | 0.0068 to 8.5 $\mu$ F                                                           |
| Rated voltage range 额定电压     | 700 to 3000 Vdc                                                                 |
| Capacitance tolerance 容量偏差   | $\pm 5\%$ , $\pm 10\%$                                                          |
| Dissipation factor 损耗角正切     | $\leq 6.0 \times 10^{-4}$ Measured at 1000 Hz and $20 \pm 5^\circ\text{C}$      |
| Life expectancy 预期寿命         | 100,000 hours at $U_{\text{NDC}}$ and $70^\circ\text{C}$ (Hot-spot temperature) |

### TEST METHODS AND PERFORMANCES 测试方法

|                                         |                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Dielectric strength 介质强度                | $1.5 \times U_{\text{NDC}}$ applied to 10s at $20 \pm 5^\circ\text{C}$                                                |
| Test voltage terminal to case 端壳耐压      | 3KVAC/50Hz for 10s                                                                                                    |
| Insulation resistance (IR* $C_N$ ) 绝缘电阻 | 30000s but need not exceed 30G $\Omega$ ,<br>after 1 minute of electrification at 100VDC ( $20 \pm 5^\circ\text{C}$ ) |

### OUTLINE DRAWING 外形图



### HOW TO ORDER:

| K8D          | 102D          | 334               | K              | R        | 44      | N           | 2          | ***           |
|--------------|---------------|-------------------|----------------|----------|---------|-------------|------------|---------------|
| Series Code: | Voltage:      | Capacitance:      | Cap. Tol.:     | Shape:   | Length: | Leads:      | Style:     | Internal Code |
| K8D:         | 102D: 1000Vdc | 104: 0.1 $\mu$ F  | J: $\pm 5\%$ , | R: Round | L=44mm  | N: Tinned   | 2: 2 leads |               |
| ASD Series   | 101D: 100Vdc  | 103: 0.01 $\mu$ F | K: $\pm 10\%$  | F: Flat  |         | copper wire |            |               |

### ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

| Part<br>Number                                  | Cap<br>(μF) | Dimension |      |            |      |     | Du/dt<br>(v/μs) | Ipeak<br>(A) | Imax @ 60°C<br>@10KHz (A) | ESR @100KHz<br>(mΩ) |
|-------------------------------------------------|-------------|-----------|------|------------|------|-----|-----------------|--------------|---------------------------|---------------------|
|                                                 |             |           |      | flat, oval |      |     |                 |              |                           |                     |
|                                                 |             | L         | D    | T          | H    | d   |                 |              |                           |                     |
| U <sub>NDc</sub> 700Vdc, Urms 380Vac, Us 1050V  |             |           |      |            |      |     |                 |              |                           |                     |
| K8D701D224K#32N2***                             | 0.22        | 32.0      |      | 7.9        | 14.3 | 0.8 | 480             | 106          | 5.5                       | 13.7                |
| K8D701D334K#32N2***                             | 0.33        | 32.0      | 14.2 | 9.5        | 17.5 | 0.8 | 480             | 158          | 6                         | 11.9                |
| K8D701D474K#32N2***                             | 0.47        | 32.0      | 16.6 | 11.9       | 19.9 | 0.8 | 480             | 226          | 8                         | 7.5                 |
| K8D701D684K#32N2***                             | 0.68        | 32.0      | 19.7 | 14.9       | 22.9 | 1.0 | 480             | 326          | 9                         | 5.9                 |
| K8D701D684K#44N2***                             | 0.68        | 44.0      | 15.6 | 10.9       | 18.9 | 1.0 | 325             | 221          | 9                         | 7.7                 |
| K8D701D105K#44N2***                             | 1.0         | 44.0      | 18.7 | 13.9       | 21.9 | 1.2 | 325             | 325          | 9                         | 5.7                 |
| K8D701D155K#44N2***                             | 1.5         | 44.0      | 22.6 | 16.3       | 27.5 | 1.2 | 325             | 488          | 12                        | 5.3                 |
| K8D701D205K#44N2***                             | 2.0         | 44.0      | 25.9 | 19.5       | 30.7 | 1.2 | 325             | 650          | 12                        | 5.2                 |
| K8D701D225K#44N2***                             | 2.2         | 44.0      | 27.1 | 20.7       | 31.9 | 1.2 | 325             | 715          | 12                        | 4.8                 |
| K8D701D225K#57N2***                             | 2.2         | 57.0      | 22.6 | 16.3       | 27.5 | 1.2 | 240             | 528          | 12                        | 4.6                 |
| K8D701D255K#44N2***                             | 2.5         | 44.0      | 28.8 | 22.4       | 33.6 | 1.2 | 325             | 813          | 12                        | 4.5                 |
| K8D701D255K#57N2***                             | 2.5         | 57.0      | 24.0 | 17.7       | 28.9 | 1.2 | 240             | 600          | 12                        | 4.5                 |
| K8D701D305K#44N2***                             | 3.0         | 44.0      | 31.4 | 25.0       | 36.2 | 1.2 | 325             | 975          | 12                        | 4.3                 |
| K8D701D305K#57N2***                             | 3.0         | 57.0      | 26.2 | 19.8       | 31.0 | 1.2 | 240             | 720          | 12                        | 4.3                 |
| K8D701D335K#44N2***                             | 3.3         | 44.0      | 32.9 | 26.4       | 37.6 | 1.2 | 325             | 1073         | 12                        | 4.6                 |
| K8D701D355K#57N2***                             | 3.5         | 57.0      | 28.2 | 21.8       | 33.0 | 1.2 | 240             | 840          | 12                        | 4.2                 |
| K8D701D405K#57N2***                             | 4.0         | 57.0      | 30.0 | 23.6       | 34.8 | 1.2 | 240             | 960          | 12                        | 4.2                 |
| K8D701D475K#57N2***                             | 4.7         | 57.0      | 32.5 | 26.0       | 37.2 | 1.2 | 240             | 1128         | 12                        | 4.2                 |
| K8D701D565K#57N2***                             | 5.6         | 57.0      | 35.4 | 28.8       | 40.0 | 1.2 | 240             | 1344         | 12                        | 3.8                 |
| K8D701D685K#57N2***                             | 6.8         | 57.0      | 38.9 |            |      | 1.2 | 240             | 1632         | 12                        | 3.8                 |
| K8D701D855K#57N2***                             | 8.5         | 57.0      | 43.3 |            |      | 1.2 | 240             | 2040         | 12                        | 3.6                 |
| U <sub>NDc</sub> 850Vdc, Urms 450Vac, Us 1275V  |             |           |      |            |      |     |                 |              |                           |                     |
| K8D851D104K#32N2***                             | 0.10        | 32.0      |      | 5.9        | 12.3 | 0.8 | 700             | 70           | 4                         | 22.6                |
| K8D851D154K#32N2***                             | 0.15        | 32.0      |      | 7.6        | 14.0 | 0.8 | 700             | 105          | 5.5                       | 20.3                |
| K8D851D224K#32N2***                             | 0.22        | 32.0      | 13.7 | 9.1        | 17.1 | 0.8 | 700             | 154          | 6.5                       | 13.2                |
| K8D851D224K#44N2***                             | 0.22        | 44.0      | 11.1 | 7.1        | 13.5 | 0.8 | 400             | 88           | 6.5                       | 12.5                |
| K8D851D334K#32N2***                             | 0.33        | 32.0      | 16.4 | 11.7       | 19.7 | 1.0 | 700             | 231          | 8                         | 8.5                 |
| K8D851D334K#44N2***                             | 0.33        | 44.0      | 13.2 | 8.5        | 16.5 | 1.0 | 400             | 132          | 7.5                       | 11.8                |
| K8D851D474K#32N2***                             | 0.47        | 32.0      | 19.3 | 14.6       | 22.6 | 1.0 | 700             | 329          | 9                         | 9.5                 |
| K8D851D474K#44N2***                             | 0.47        | 44.0      | 15.4 | 10.7       | 18.7 | 1.0 | 400             | 188          | 9                         | 7.5                 |
| K8D851D684K#44N2***                             | 0.68        | 44.0      | 18.2 | 13.5       | 21.5 | 1.0 | 400             | 272          | 9                         | 5.2                 |
| K8D851D105K#44N2***                             | 1.0         | 44.0      | 21.8 | 15.6       | 26.8 | 1.2 | 400             | 400          | 12                        | 5.7                 |
| K8D851D155K#44N2***                             | 1.5         | 44.0      | 26.4 | 20.1       | 31.3 | 1.2 | 400             | 600          | 12                        | 5.5                 |
| K8D851D205K#44N2***                             | 2.0         | 44.0      | 30.4 | 23.9       | 35.1 | 1.2 | 400             | 800          | 12                        | 4.8                 |
| K8D851D225K#44N2***                             | 2.2         | 44.0      | 31.8 | 25.3       | 36.5 | 1.2 | 400             | 880          | 12                        | 4.8                 |
| K8D851D225K#57N2***                             | 2.2         | 57.0      | 26.5 | 20.1       | 31.3 | 1.2 | 290             | 638          | 12                        | 3.5                 |
| K8D851D255K#44N2***                             | 2.5         | 44.0      | 33.8 | 27.3       | 38.5 | 1.2 | 400             | 1000         | 12                        | 3.4                 |
| K8D851D255K#57N2***                             | 2.5         | 57.0      | 28.1 | 21.7       | 32.9 | 1.2 | 290             | 725          | 12                        | 3.2                 |
| K8D851D305K#57N2***                             | 3.0         | 57.0      | 30.7 | 24.3       | 35.5 | 1.2 | 290             | 870          | 12                        | 3.0                 |
| K8D851D335K#57N2***                             | 3.3         | 57.0      | 32.2 | 25.7       | 36.9 | 1.2 | 290             | 957          | 12                        | 2.9                 |
| K8D851D405K#57N2***                             | 4.0         | 57.0      | 35.3 | 28.8       | 40.0 | 1.2 | 290             | 1160         | 12                        | 2.8                 |
| K8D851D475KR57N2***                             | 4.7         | 57.0      | 38.2 |            |      | 1.2 | 290             | 1363         | 12                        | 2.8                 |
| K8D851D565KR57N2***                             | 5.6         | 57.0      | 41.6 |            |      | 1.2 | 290             | 1624         | 12                        | 2.7                 |
| U <sub>NDc</sub> 1000Vdc, Urms 480Vac, Us 1500V |             |           |      |            |      |     |                 |              |                           |                     |
| K8D102D104K#32N2***                             | 0.10        | 32.0      |      | 7.7        | 12.5 | 0.8 | 850             | 85           | 5                         | 11.9                |
| K8D102D154K#32N2***                             | 0.15        | 32.0      |      | 9.1        | 15.5 | 0.8 | 850             | 128          | 6                         | 11.2                |
| K8D102D224K#32N2***                             | 0.22        | 32.0      | 15.6 | 10.9       | 18.9 | 1.0 | 850             | 187          | 7                         | 8.3                 |
| K8D102D334K#32N2***                             | 0.33        | 32.0      | 18.7 | 14.0       | 22.0 | 1.0 | 850             | 281          | 9                         | 8.5                 |
| K8D102D334K#44N2***                             | 0.33        | 44.0      | 14.9 | 10.2       | 18.2 | 1.0 | 570             | 188          | 9                         | 8.2                 |
| K8D102D474K#32N2***                             | 0.47        | 32.0      | 22.1 | 15.9       | 27.1 | 1.0 | 850             | 400          | 9                         | 7.8                 |
| K8D102D474K#44N2***                             | 0.47        | 44.0      | 17.5 | 12.8       | 20.8 | 1.0 | 570             | 268          | 9                         | 7.7                 |

Remark: 1. # Shape; \*\*\* Internal code.

2. Customization for special specification and requirement is available.

### ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

| Part<br>Number                                    | Cap<br>(μF) | Dimension |      |            |       |     | Du/dt<br>(v/μs) | Ipeak<br>(A) | Imax @ 60°C<br>@10KHz (A) | ESR<br>@100KHz<br>(mΩ) |
|---------------------------------------------------|-------------|-----------|------|------------|-------|-----|-----------------|--------------|---------------------------|------------------------|
|                                                   |             |           |      | flat, oval |       |     |                 |              |                           |                        |
|                                                   |             | L         | D    | T          | H     | d   |                 |              |                           |                        |
| U <sub>NDC</sub> 1000Vdc, Urms 480Vac, Us 1500V   |             |           |      |            |       |     |                 |              |                           |                        |
| K8D102D684K#44N2***                               | 0.68        | 44.0      | 20.8 | 14.6       | 25.8  | 1.0 | 570             | 388          | 9                         | 7.0                    |
| K8D102D105K#44N2***                               | 1.0         | 44.0      | 25.0 | 18.6       | 29.8  | 1.2 | 570             | 570          | 12                        | 6.8                    |
| K8D102D155K#44N2***                               | 1.5         | 44.0      | 30.3 | 23.9       | 35.1  | 1.2 | 570             | 855          | 12                        | 6.8                    |
| K8D102D155K#57N2***                               | 1.5         | 57.0      | 25.2 | 18.9       | 30.1  | 1.2 | 340             | 510          | 12                        | 6.8                    |
| K8D102D205K#57N2***                               | 2.0         | 57.0      | 29.0 | 22.6       | 33.8  | 1.2 | 340             | 680          | 12                        | 6.0                    |
| K8D102D225K#57N2***                               | 2.2         | 57.0      | 30.3 | 23.9       | 35.1  | 1.2 | 340             | 748          | 12                        | 5.9                    |
| K8D102D305K#57N2***                               | 3.0         | 57.0      | 35.3 | 28.7       | 39.9  | 1.2 | 340             | 1020         | 12                        | 5.4                    |
| K8D102D335K#57N2***                               | 3.3         | 57.0      | 36.9 | 32.9       | 39.3  | 1.2 | 340             | 1122         | 12                        | 5.1                    |
| K8D102D405K#57N2***                               | 4.0         | 57.0      | 40.6 |            |       | 1.2 | 340             | 1360         | 12                        | 4.8                    |
| K8D102D475K#57N2***                               | 4.7         | 57.0      | 43.9 |            |       | 1.2 | 340             | 1598         | 12                        | 4.6                    |
| U <sub>NDC</sub> 1200Vdc, Urms 500Vac, U 1800Vdc  |             |           |      |            |       |     |                 |              |                           |                        |
| K8D122D473K#32N2***                               | 0.047       | 32.0      |      | 5.5        | 10.3  | 0.8 | 1100            | 52           | 3                         | 36.7                   |
| K8D122D683K#32N2***                               | 0.068       | 32.0      |      | 6.9        | 11.7  | 0.8 | 1100            | 75           | 3.5                       | 27.5                   |
| K8D122D104K#32N2***                               | 0.10        | 32.0      |      | 8.7        | 13.5  | 0.8 | 1100            | 110          | 5                         | 17.9                   |
| K8D122D104K#37N2***                               | 0.10        | 37.0      | 10.7 | 6.7        | 13.1  | 0.8 | 840             | 84           | 5                         | 23.8                   |
| K8D122D104K#44N2***                               | 0.10        | 44.0      | 9.8  | 5.8        | 12.2  | 0.8 | 650             | 65           | 5                         | 27.3                   |
| K8D122D154K#32N2***                               | 0.15        | 32.0      | 14.3 | 9.6        | 17.6  | 1.0 | 1100            | 165          | 6                         | 12.5                   |
| K8D122D154K#37N2***                               | 0.15        | 37.0      | 12.7 | 8.1        | 16.1  | 1.0 | 840             | 126          | 6                         | 16.7                   |
| K8D122D154K#44N2***                               | 0.15        | 44.0      | 11.5 | 7.5        | 13.9  | 1.0 | 650             | 98           | 6                         | 19.2                   |
| K8D122D224K#32N2***                               | 0.22        | 32.0      | 17.0 | 12.3       | 20.3  | 1.0 | 1100            | 242          | 9                         | 10.8                   |
| K8D122D224K#37N2***                               | 0.22        | 37.0      | 15.0 | 10.3       | 18.3  | 1.0 | 840             | 185          | 9                         | 12.4                   |
| K8D122D224K#44N2***                               | 0.22        | 44.0      | 13.6 | 8.9        | 16.9  | 1.0 | 650             | 143          | 9                         | 12.5                   |
| K8D122D334K#32N2***                               | 0.33        | 32.0      | 20.5 | 15.7       | 23.7  | 1.0 | 1100            | 363          | 9                         | 9.8                    |
| K8D122D334K#37N2***                               | 0.33        | 37.0      | 18.1 | 13.3       | 21.3  | 1.0 | 840             | 277          | 9                         | 10.2                   |
| K8D122D334K#44N2***                               | 0.33        | 44.0      | 16.3 | 11.6       | 19.6  | 1.0 | 650             | 215          | 9                         | 10.2                   |
| K8D122D474K#37N2***                               | 0.47        | 37.0      | 21.3 | 15.1       | 26.3  | 1.0 | 840             | 395          | 9                         | 5.8                    |
| K8D122D474K#44N2***                               | 0.47        | 44.0      | 22.8 | 13.0       | 24.2  | 1.0 | 650             | 306          | 9                         | 10.2                   |
| K8D122D684K#37N2***                               | 0.68        | 37.0      | 25.4 | 19.0       | 30.2  | 1.2 | 840             | 571          | 12                        | 5.2                    |
| K8D122D684K#44N2***                               | 0.68        | 44.0      | 22.8 | 16.5       | 27.7  | 1.2 | 650             | 442          | 12                        | 6.3                    |
| K8D122D105K#44N2***                               | 1.0         | 44.0      | 27.4 | 21.0       | 32.2  | 1.2 | 650             | 650          | 12                        | 6.2                    |
| K8D122D105K#57N2***                               | 1.0         | 57.0      | 22.8 | 16.5       | 27.7  | 1.2 | 385             | 385          | 12                        | 6.8                    |
| K8D122D125K#57N2***                               | 1.2         | 44.0      | 29.9 | 23.4       | 34.6  | 1.2 | 650             | 780          | 12                        | 6.0                    |
| K8D122D125K#57N2***                               | 1.2         | 57.0      | 24.9 | 18.5       | 29.7  | 1.2 | 385             | 462          | 12                        | 6.4                    |
| K8D122D155K#57N2***                               | 1.5         | 44.0      | 33.3 | 26.8       | 38.0  | 1.2 | 650             | 975          | 12                        | 6.7                    |
| K8D122D155K#57N2***                               | 1.5         | 57.0      | 27.7 | 21.3       | 32.5  | 1.2 | 385             | 578          | 12                        | 6.0                    |
| K8D122D205K#57N2***                               | 2.0         | 57.0      | 31.8 | 25.3       | 36.5  | 1.2 | 385             | 770          | 12                        | 5.6                    |
| K8D122D225K#57N2***                               | 2.2         | 57.0      | 33.3 | 26.8       | 38.0  | 1.2 | 385             | 847          | 12                        | 5.5                    |
| K8D122D255K#57N2***                               | 2.5         | 57.0      | 35.4 | 28.9       | 40.1  | 1.2 | 385             | 963          | 12                        | 5.3                    |
| K8D122D305K#57N2***                               | 3.0         | 57.0      | 38.7 |            |       | 1.2 | 385             | 1155         | 12                        | 5.0                    |
| K8D122D335K#57N2***                               | 3.3         | 57.0      | 40.6 |            |       | 1.2 | 385             | 1270         | 12                        | 4.7                    |
| K8D122D405K#57N2***                               | 4.0         | 57.0      | 44.6 |            |       | 1.2 | 385             | 1540         | 12                        | 4.5                    |
| U <sub>NDC</sub> 1500Vdc, Urms 570Vac, Us 2250Vdc |             |           |      |            |       |     |                 |              |                           |                        |
| K8D152D683K#32N2***                               | 0.068       | 32.0      |      | 8.5        | 14.9  | 0.8 | 1225            | 83           | 4                         | 26.3                   |
| K8D152D104K#32N2***                               | 0.10        | 32.0      | 14.7 | 10.0       | 18.0  | 0.8 | 1225            | 123          | 5.5                       | 15.6                   |
| K8D152D154K#32N2***                               | 0.15        | 32.0      | 17.7 | 13.0       | 21.s0 | 1.0 | 1225            | 184          | 7                         | 7.2                    |
| K8D152D224K#32N2***                               | 0.22        | 32.0      | 21.1 | 14.9       | 26.1  | 1.0 | 1225            | 270          | 9                         | 6.3                    |
| K8D152D224K#44N2***                               | 0.22        | 44.0      | 16.8 | 12.1       | 20.1  | 1.0 | 800             | 176          | 9                         | 10.7                   |
| K8D152D334K#44N2***                               | 0.33        | 44.0      | 20.2 | 15.5       | 23.5  | 1.0 | 800             | 264          | 9                         | 9.3                    |
| K8D152D474K#44N2***                               | 0.47        | 44.0      | 23.9 | 17.6       | 28.8  | 1.2 | 800             | 376          | 11                        | 5.6                    |
| K8D152D684K#44N2***                               | 0.68        | 44.0      | 28.5 | 22.1       | 33.3  | 1.2 | 800             | 544          | 12                        | 5.3                    |

Remark: 1. # Shape; \*\*\* Internal code.

2. Customization for special specification and requirement is available.

### ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

| Part<br>Number                                    | Cap<br>(μF) | Dimension  |      |      |       |     | Du/dt<br>(v/μs) | Ipeak<br>(A) | Imax @ 60°C<br>@10KHz (A) | ESR<br>@100KHz<br>(mΩ) |
|---------------------------------------------------|-------------|------------|------|------|-------|-----|-----------------|--------------|---------------------------|------------------------|
|                                                   |             | flat, oval |      |      |       |     |                 |              |                           |                        |
|                                                   |             | L          | D    | T    | H     | d   |                 |              |                           |                        |
| U <sub>NDC</sub> 1500Vdc, Urms 570Vac, Us 2250Vdc |             |            |      |      |       |     |                 |              |                           |                        |
| K8D152D105K#44N2***                               | 1.0         | 44.0       | 34.4 | 27.9 | 39.1  | 1.2 | 800             | 800          | 12                        | 4.8                    |
| K8D152D105K#57N2***                               | 1.0         | 57.0       | 28.6 | 22.2 | 33.4  | 1.2 | 570             | 570          | 12                        | 4.8                    |
| K8D152D125K#57N2***                               | 1.2         | 57.0       | 31.2 | 24.8 | 36.0  | 1.2 | 570             | 684          | 12                        | 4.4                    |
| K8D152D155K#57N2***                               | 1.5         | 57.0       | 34.8 | 28.3 | 39.5  | 1.2 | 570             | 855          | 12                        | 4.0                    |
| K8D152D205K#57N2***                               | 2.0         | 57.0       | 40.0 |      |       | 1.2 | 570             | 1140         | 12                        | 3.8                    |
| K8D152D225K#57N2***                               | 2.2         | 57.0       | 41.9 |      |       | 1.2 | 570             | 1254         | 12                        | 3.6                    |
| K8D152D255K#57N2***                               | 2.5         | 57.0       | 44.6 |      |       | 1.2 | 570             | 1425         | 12                        | 3.5                    |
| U <sub>NDC</sub> 1700Vdc, Urms 575Vac, Us 2550Vdc |             |            |      |      |       |     |                 |              |                           |                        |
| K8D172D333K#32N2***                               | 0.033       | 32.0       |      | 5.9  | 12.6  | 0.8 | 1350            | 45           | 3.9                       | 47.5                   |
| K8D172D473K#32N2***                               | 0.047       | 32.0       |      | 7.4  | 13.8  | 0.8 | 1350            | 63           | 4.0                       | 30.4                   |
| K8D172D683K#32N2***                               | 0.068       | 32.0       | 13.3 | 8.7  | 16.7  | 0.8 | 1350            | 92           | 4.1                       | 23.9                   |
| K8D172D104K#32N2***                               | 0.10        | 32.0       | 15.8 | 11.1 | 19.1  | 0.8 | 1350            | 135          | 5.7                       | 17.3                   |
| K8D172D154K#32N2***                               | 0.15        | 32.0       | 19.1 | 14.3 | 22.3  | 1.0 | 1350            | 203          | 8.0                       | 11.8                   |
| K8D172D224K#32N2***                               | 0.22        | 32.0       | 22.8 | 16.5 | 27.7  | 1.0 | 1350            | 297          | 9.0                       | 6.6                    |
| K8D172D224K#44N2***                               | 0.22        | 44.0       | 18.1 | 13.3 | 21.3  | 1.0 | 880             | 194          | 9.0                       | 10.4                   |
| K8D172D334K#44N2***                               | 0.33        | 44.0       | 21.8 | 15.6 | 26.8  | 1.0 | 880             | 290          | 9.0                       | 6.9                    |
| K8D172D474K#44N2***                               | 0.47        | 44.0       | 25.8 | 19.5 | 30.7  | 1.2 | 880             | 414          | 12                        | 4.7                    |
| K8D172D684K#44N2***                               | 0.68        | 44.0       | 30.8 | 24.4 | 35.6  | 1.2 | 880             | 598          | 12                        | 4.5                    |
| K8D172D105K#44N2***                               | 1.0         | 44.0       | 37.2 | 30.6 | 41.8  | 1.2 | 880             | 880          | 12                        | 3.8                    |
| K8D172D105K#57N2***                               | 1.0         | 57.0       | 30.9 | 24.4 | 35.6  | 1.2 | 610             | 610          | 12                        | 3.6                    |
| K8D172D125K#57N2***                               | 1.2         | 57.0       | 33.8 | 27.2 | 38.4  | 1.2 | 610             | 732          | 12                        | 3.5                    |
| K8D172D155K#57N2***                               | 1.5         | 57.0       | 37.6 |      |       | 1.2 | 610             | 915          | 12                        | 3.5                    |
| K8D172D205K#57N2***                               | 2.0         | 57.0       | 43.3 |      |       | 1.2 | 610             | 1220         | 12                        | 3.4                    |
| U <sub>NDC</sub> 2000Vdc, Unms 630Vac, Us 3000Vdc |             |            |      |      |       |     |                 |              |                           |                        |
| K8D202D223K#32N2***                               | 0.022       | 32.0       |      | 5.4  | 11.8  | 0.8 | 1750            | 39           | 2.5                       | 68.7                   |
| K8D202D333K#32N2***                               | 0.033       | 32.0       |      | 7.0  | 13.4  | 0.8 | 1750            | 58           | 3.5                       | 52.7                   |
| K8D202D473K#32N2***                               | 0.047       | 32.0       |      | 8.1  | 16.s1 | 0.8 | 1750            | 82           | 4.5                       | 34.8                   |
| K8D202D473K#44N2***                               | 0.047       | 44.0       | 10.4 | 6.4  | 12.8  | 0.8 | 1000            | 47           | 4                         | 45.8                   |
| K8D202D683K#32N2***                               | 0.068       | 32.0       | 15.0 | 10.3 | 18.3  | 1.0 | 1750            | 119          | 5.5                       | 23.5                   |
| K8D202D683K#44N2***                               | 0.068       | 44.0       | 12.1 | 8.1  | 14.5  | 0.8 | 1000            | 68           | 5.5                       | 16.3                   |
| K8D202D104K#32N2***                               | 0.10        | 32.0       | 17.8 | 13.1 | 21.1  | 1.0 | 1750            | 175          | 7.5                       | 13.8                   |
| K8D202D104K#44N2***                               | 0.10        | 44.0       | 14.2 | 9.6  | 17.6  | 1.0 | 1000            | 100          | 7                         | 12.4                   |
| K8D202D154K#44N2***                               | 0.15        | 44.0       | 17.1 | 12.4 | 20.4  | 1.0 | 1000            | 150          | 9                         | 8.6                    |
| K8D202D224K#44N2***                               | 0.22        | 44.0       | 20.4 | 15.6 | 23.6  | 1.0 | 1000            | 220          | 9                         | 8.5                    |
| K8D202D334K#44N2***                               | 0.33        | 44.0       | 24.7 | 18.4 | 29.6  | 1.2 | 1000            | 330          | 12                        | 5.2                    |
| K8D202D474K#44N2***                               | 0.47        | 44.0       | 29.9 | 23.4 | 34.6  | 1.2 | 1000            | 473          | 12                        | 5.0                    |
| K8D202D564K#44N2***                               | 0.56        | 44.0       | 32.4 | 25.9 | 37.1  | 1.2 | 1000            | 560          | 12                        | 4.9                    |
| K8D202D564K#57N2***                               | 0.56        | 57.0       | 26.5 | 20.1 | 31.3  | 1.2 | 640             | 358          | 12                        | 5.5                    |
| K8D202D684K#57N2***                               | 0.68        | 57.0       | 29.1 | 22.7 | 33.9  | 1.2 | 640             | 435          | 12                        | 5.1                    |
| K8D202D105K#57N2***                               | 1.0         | 57.0       | 35.1 | 28.6 | 39.8  | 1.2 | 640             | 640          | 12                        | 4.8                    |
| K8D202D125K#57N2***                               | 1.2         | 57.0       | 38.3 |      |       | 1.2 | 640             | 768          | 12                        | 4.8                    |
| K8D202D155K#57N2***                               | 1.5         | 57.0       | 42.8 |      |       | 1.2 | 640             | 960          | 12                        | 4.6                    |
| U <sub>NDC</sub> 2500Vdc, Unms 700Vac, Us 3750Vdc |             |            |      |      |       |     |                 |              |                           |                        |
| K8D252D223K#32N2***                               | 0.022       | 32.0       |      | 6.9  | 13.3  | 0.8 | 2150            | 47           | 3.5                       | 40.5                   |
| K8D252D333K#32N2***                               | 0.033       | 32.0       |      | 8.2  | 16.2  | 0.8 | 2150            | 71           | 4                         | 36.9                   |
| K8D252D473K#32N2***                               | 0.047       | 32.0       | 15.0 | 10.3 | 18.3  | 0.8 | 2150            | 101          | 5                         | 23.8                   |
| K8D252D683K#32N2***                               | 0.068       | 32.0       | 17.3 | 13.0 | 21.0  | 1.0 | 2150            | 146          | 6.5                       | 21.5                   |
| K8D252D104K#32N2***                               | 0.10        | 32.0       | 21.3 | 15.0 | 26.2  | 1.0 | 2150            | 215          | 8.5                       | 12.5                   |
| K8D252D104K#44N2***                               | 0.10        | 44.0       | 16.9 | 12.1 | 20.1  | 1.0 | 1350            | 135          | 8.5                       | 17.7                   |

Remark: 1. # Shape; \*\*\* Internal code.

2. Customization for special specification and requirement is available.

### ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

| Part<br>Number                                    | Cap<br>(μF) | Dimension |      |            |      |     | Du/dt<br>(v/μs) | Ipeak<br>(A) | Imax @ 60°C<br>@10KHz (A) | ESR<br>@100KHz<br>(mΩ) |
|---------------------------------------------------|-------------|-----------|------|------------|------|-----|-----------------|--------------|---------------------------|------------------------|
|                                                   |             |           |      | flat, oval |      |     |                 |              |                           |                        |
|                                                   |             | L         | D    | T          | H    | d   |                 |              |                           |                        |
| U <sub>NDC</sub> 2500Vdc, Unms 700Vac, Us 3750Vdc |             |           |      |            |      |     |                 |              |                           |                        |
| K8D252D154K#44N2***                               | 0.15        | 44.0      | 20.4 | 15.6       | 23.6 | 1.0 | 1350            | 203          | 9                         | 11.6                   |
| K8D252D224K#44N2***                               | 0.22        | 44.0      | 24.4 | 18.1       | 29.3 | 1.2 | 1350            | 297          | 11                        | 10.3                   |
| K8D252D334K#44N2***                               | 0.33        | 44.0      | 29.6 | 23.2       | 34.4 | 1.2 | 1350            | 446          | 12                        | 10.0                   |
| K8D252D334K#57N2***                               | 0.33        | 57.0      | 24.7 | 18.3       | 29.5 | 1.2 | 880             | 290          | 12                        | 6.8                    |
| K8D252D474K#57N2***                               | 0.47        | 57.0      | 29.2 | 22.8       | 34.0 | 1.2 | 880             | 414          | 12                        | 6.5                    |
| K8D252D684K#57N2***                               | 0.68        | 57.0      | 34.9 | 28.4       | 39.6 | 1.2 | 880             | 598          | 12                        | 6.0                    |
| K8D252D824K#57N2***                               | 0.82        | 57.0      | 38.3 |            |      | 1.2 | 880             | 722          | 12                        | 5.6                    |
| K8D252D105K#57N2***                               | 1.0         | 57.0      | 42.2 |            |      | 1.2 | 880             | 880          | 12                        | 5.4                    |
| U <sub>NDC</sub> 3000Vdc, Unms 750Vac, Us 4500Vdc |             |           |      |            |      |     |                 |              |                           |                        |
| K8D302D682K#32N2***                               | 0.0068      | 32.0      |      | 5.1        | 9.9  | 0.8 | 2750            | 19           | 1.5                       | 104.0                  |
| K8D302D103K#32N2***                               | 0.010       | 32.0      |      | 5.9        | 12.3 | 0.8 | 2750            | 28           | 2                         | 79.4                   |
| K8D302D153K#32N2***                               | 0.015       | 32.0      |      | 7.1        | 13.5 | 0.8 | 2750            | 41           | 3                         | 75.5                   |
| K8D302D223K#32N2***                               | 0.022       | 32.0      | 13.1 | 8.4        | 16.4 | 0.8 | 2750            | 61           | 4                         | 63.9                   |
| K8D302D333K#32N2***                               | 0.033       | 32.0      | 15.7 | 11.0       | 19.0 | 1.0 | 2750            | 91           | 5                         | 33.9                   |
| K8D302D473K#32N2***                               | 0.047       | 32.0      | 18.4 | 13.7       | 21.7 | 1.0 | 2750            | 129          | 6.5                       | 25.7                   |
| K8D302D473K#44N2***                               | 0.047       | 44.0      | 14.7 | 10.0       | 18.0 | 1.0 | 1600            | 75           | 6                         | 37.4                   |
| K8D302D683K#44N2***                               | 0.068       | 44.0      | 17.3 | 12.6       | 20.6 | 1.0 | 1600            | 109          | 8                         | 25.1                   |
| K8D302D104K#44N2***                               | 0.10        | 44.0      | 20.7 | 14.5       | 25.7 | 1.2 | 1600            | 160          | 11                        | 17.4                   |
| K8D302D154K#44N2***                               | 0.15        | 44.0      | 25.1 | 18.8       | 30.0 | 1.2 | 1600            | 240          | 12                        | 16.8                   |
| K8D302D224K#44N2***                               | 0.22        | 44.0      | 30.2 | 23.7       | 34.9 | 1.2 | 1600            | 352          | 12                        | 17.4                   |
| K8D302D224K#57N2***                               | 0.22        | 57.0      | 25.1 | 18.8       | 30.0 | 1.2 | 990             | 218          | 12                        | 12.6                   |
| K8D302D334K#57N2***                               | 0.33        | 57.0      | 30.5 | 24.1       | 35.3 | 1.2 | 990             | 327          | 12                        | 8.0                    |
| K8D302D394K#57N2***                               | 0.39        | 57.0      | 33.1 | 26.6       | 37.8 | 1.2 | 990             | 386          | 12                        | 74.4                   |
| K8D302D474K#57N2***                               | 0.47        | 57.0      | 36.3 |            |      | 1.2 | 990             | 465          | 12                        | 5.7                    |
| K8D302D684K#57N2***                               | 0.68        | 57.0      | 43.4 |            |      | 1.2 | 990             | 673          | 12                        | 5.5                    |

Remark: 1. # Shape; \*\*\* Internal code.

2. Customization for special specification and requirement is available.