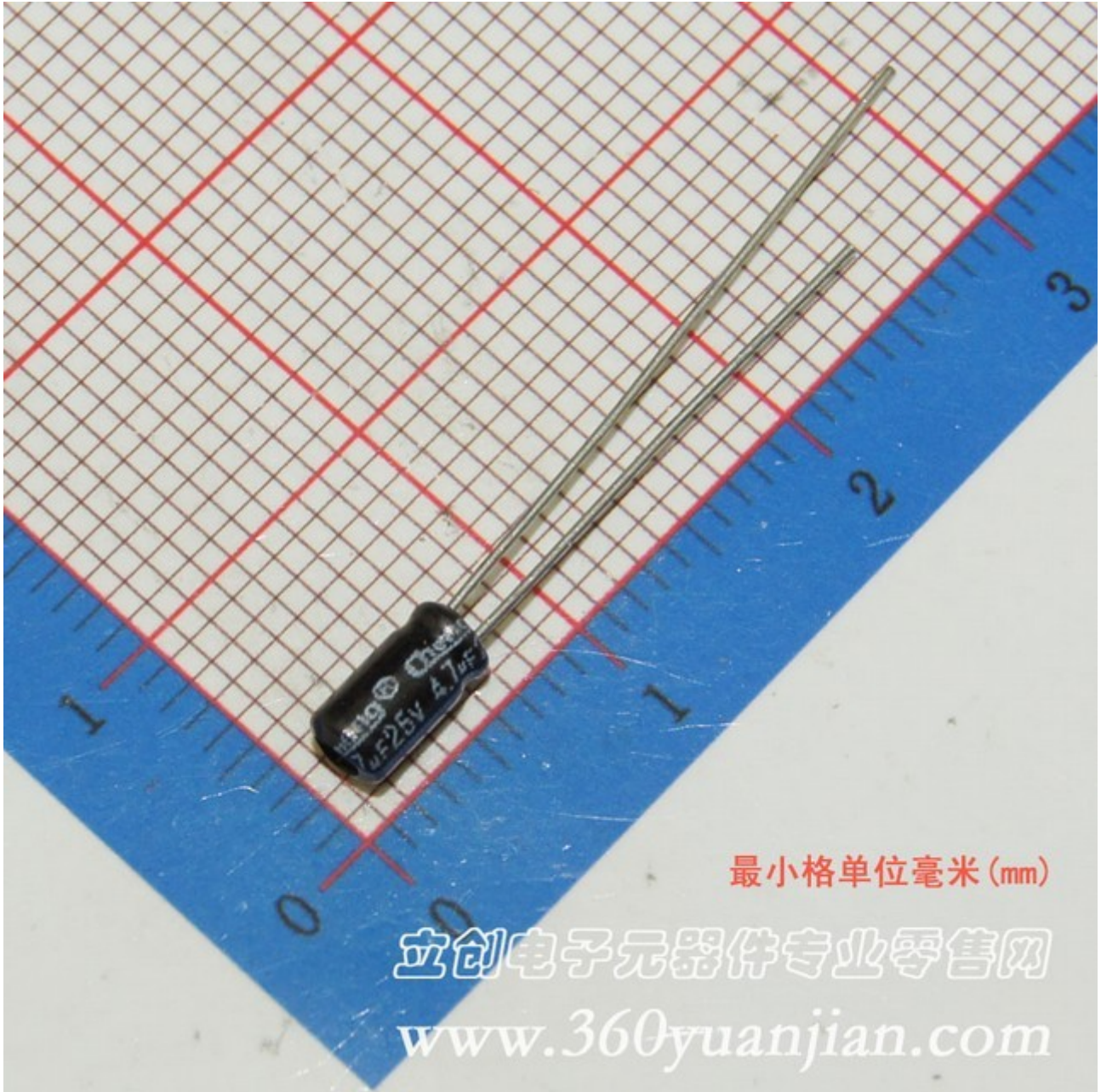


此商品编号对应的规格参数是： 4.7uF 25V 3\*5

此商品的实物图片为：

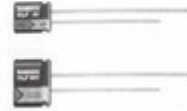


## KF Series

5mmL(高), +105°C

### FEATURES

1. Super miniature, 5mmL, high temperature, suitable for use in electronic circuit of high density assembly of videocorder, remote controller, VCD etc.



### SPECIFICATIONS

| Item                            | Performance Characteristics   |                        |      |      |  |      |      |  |
|---------------------------------|---|------------------------|------|------|--|------|------|--|
| Operating Temperature Range     | -40 to +105°C   |                        |      |      |  |      |      |  |
| Rated Working Voltage Range     | 4 to 50V  |                        |      |      |  |      |      |  |
| Nominal Capacitance Range       | 0.1 to 330 $\mu$ F  |                        |      |      |  |      |      |  |
| Capacitance Tolerance           | $\pm 20\%$ (120Hz, +20°C)   |                        |      |      |  |      |      |  |
| Leakage Current                 | I $\leq$ 0.01CV or 3( $\mu$ A)<br>whichever is greater measured after 2 minutes application of rated working voltage at +20 C |                        |      |      |  |      |      |  |
| tan $\delta$ (120Hz, +20°C)     | Working Voltage (V)   | 4                      | 6.3  | 10   | 16   | 25   | 35   | 50   |
|                                 | tan $\delta$ (max.)   | 0.37                   | 0.28 | 0.24 | 0.20   | 0.16 | 0.13 | 0.12   |
| Low Temperature Characteristics | Impedance ratio max. at 120Hz   |                        |      |      |  |      |      |  |
|                                 | Working Voltage (V)   | 4                      | 6.3  | 10   | 16   | 25   | 35   | 50   |
|                                 | Z-25°C / Z+20°C   | 6                      | 3    | 3    | 2  | 2    | 2    | 2  |
|                                 | Z-40°C / Z+20°C   | 12                     | 8    | 5    | 4  | 3    | 3    | 3  |
| High Temperature Loading        | Test conditions   |                        |      |      | Post test requirements at +20°C  |      |      |  |
|                                 | Duration : 1000 hours   | Ambient temp. : +105°C |      |      | Applied voltage : Rated DC working voltage with rated ripple current               |      |      | Leakage current : $\leq$ Initial specified value |
| Shelf Life                      | Test conditions   |                        |      |      | Post test requirements at +20°C  |      |      |  |
|                                 | Duration : 1000 hours   | Ambient temp. : +105°C |      |      | Applied voltage : (None)   |      |      | Leakage current : $\leq$ Initial specified value |
| Others                          |   |                        |      |      | Cap. change : within $\pm 20\%$ of initial measured value (4V: within $\pm 30\%$ ) |      |      |  |
|                                 |   |                        |      |      | tan $\delta$ : $\leq 200\%$ of initial specified value                             |      |      |  |
| JIS C - 5101 (IEC 60384)        |   |                        |      |      |  |      |      |  |

### CASE SIZE TABLE

|  |          |      |     |     |     |
|--|----------|------|-----|-----|-----|
|  | $\phi D$ | 4    | 5   | 6.3 | 8   |
|  | F        | 1.5  | 2.0 | 2.5 | 2.5 |
|  | $\phi d$ | 0.45 |     |     |     |

### RIPPLE CURRENT MULTIPLIER

| Frequency Coefficient |             |      |      |      |      |      |
|-----------------------|-------------|------|------|------|------|------|
| Cap( $\mu$ F)         | Coefficient | 50   | 120  | 300  | 1k   | 10k~ |
| $\leq 47$             |             | 0.75 | 1.00 | 1.35 | 1.57 | 2.00 |
| 68-330                |             | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |

## KF Series

5mmL(高), +105°C

### STANDARD RATINGS

| Voltage (Code) |      | 4V (0G)   |                | 6.3V (0J) |                | 10V (1A)  |                | 16V (1C)  |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.( $\mu$ F) | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 0.1            | 104  |           |                |           |                |           |                |           |                |
| 0.22           | 224  |           |                |           |                |           |                |           |                |
| 0.33           | 334  |           |                |           |                |           |                |           |                |
| 0.47           | 474  |           |                |           |                |           |                |           |                |
| 1              | 105  |           |                |           |                |           |                |           |                |
| 2.2            | 225  |           |                |           |                |           |                |           |                |
| 3.3            | 335  |           |                |           |                |           |                |           |                |
| 4.7            | 475  |           |                |           |                |           |                |           |                |
| 10             | 106  |           |                |           |                |           |                | 4 x 5     | 18             |
| 22             | 226  | 4 x 5     | 22             | 4 x 5     | 22             | 4 x 5     | 24             | 5 x 5     | 30             |
| 33             | 336  | 5 x 5     | 30             | 5 x 5     | 30             | 5 x 5     | 35             | 6.3 x 5   | 40             |
| 47             | 476  | 5 x 5     | 36             | 5 x 5     | 36             | 6.3 x 5   | 46             | 6.3 x 5   | 50             |
| 100            | 107  | 6.3 x 5   | 60             | 6.3 x 5   | 60             | 6.3 x 5   | 67             | 6.3 x 5   | 73             |
| 220            | 227  |           |                | 8 x 5     | 103            | 8 x 5     | 116            | 8 x 5     | 126            |
| 330            | 337  |           |                | 8 x 5     | 127            |           |                |           |                |

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size  $\phi$ D x L(mm)

| Voltage (Code) |      | 25V (1E)  |                | 35V (1V)  |                | 50V (1H)  |                |  |  |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|--|--|
| Cap.( $\mu$ F) | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |  |  |
| 0.1            | 104  |           |                |           |                | 4 x 5     | 1.0            |  |  |
| 0.22           | 224  |           |                |           |                | 4 x 5     | 2.6            |  |  |
| 0.33           | 334  |           |                |           |                | 4 x 5     | 3.2            |  |  |
| 0.47           | 474  |           |                |           |                | 4 x 5     | 3.8            |  |  |
| 1              | 105  |           |                |           |                | 4 x 5     | 6.2            |  |  |
| 2.2            | 225  |           |                | 4 x 5     | 7              | 4 x 5     | 11             |  |  |
| 3.3            | 335  |           |                | 5 x 5     | 11             | 4 x 5     | 14             |  |  |
| 4.7            | 475  | 4 x 5     | 13             | 4 x 5     | 15             | 5 x 5     | 19             |  |  |
| 10             | 106  | 5 x 5     | 20             | 5 x 5     | 25             | 6.3 x 5   | 30             |  |  |
| 22             | 226  | 6.3 x 5   | 38             | 6.3 x 5   | 48             | 8 x 5     | 52             |  |  |
| 33             | 336  | 6.3 x 5   | 48             | 6.3 x 5   | 59             | 8 x 5     | 63             |  |  |
| 47             | 476  | 6.3 x 5   | 58             | 8 x 5     | 82             |           |                |  |  |
| 100            | 107  | 8 x 5     | 97             |           |                |           |                |  |  |

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz

Case Size  $\phi$ D x L(mm)