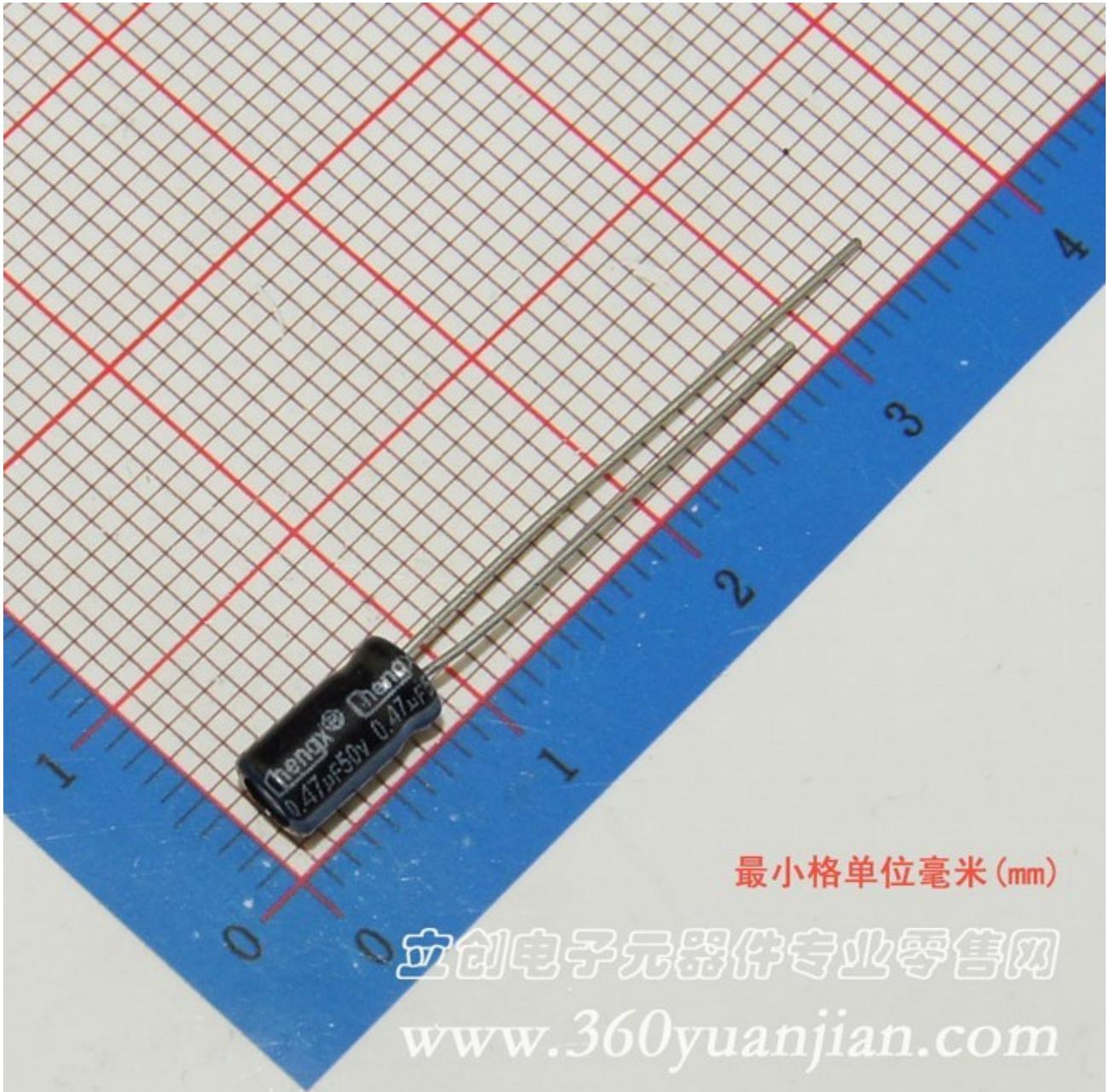


此商品编号对应的规格参数是: 0.47uF 50V 4\*7

此商品的实物图片为:

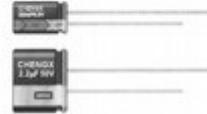


## KS Series

7mmL(高), -40°C~ +105°C

### FEATURES

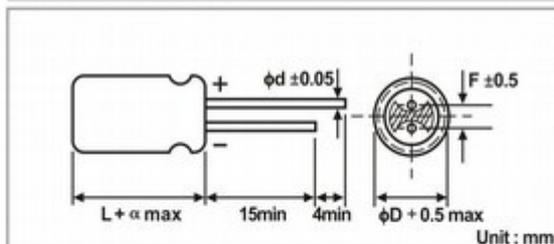
1. Rated working voltage range 6.3 to 50V DC operation temperature range -40 to +105°C.
2. This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



### SPECIFICATIONS

| Item                            | Performance Characteristics  |  |
|---------------------------------|--|--|
| Operating Temperature Range     | -40 to +105°C  |  |
| Rated Working Voltage Range     | 6.3 to 50V   |  |
| Nominal Capacitance Range       | 0.1 to 220 $\mu$ 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)  | 6.3    10    16    25    35    50  |
|                                 | $\tan \delta$ (max.)   | 0.24    0.21    0.18    0.15    0.13    0.12   |
| Low Temperature Characteristics | Impedance ratio max. at 120Hz  |  |
|                                 | Working Voltage (V)  | 6.3    10    16    25    35    50  |
|                                 | Z-25°C / Z+20°C  | 4    2    2    2    2    2   |
|                                 | Z-40°C / Z+20°C  | 8    6    4    3    3    3   |
| High Temperature Loading        | Test conditions  | Post test requirements at +20°C  |
|                                 | Duration : 1000 hours<br>Ambient temp. : +105°C<br>Applied voltage : Rated DC working voltage with rated ripple current      | Leakage current : $\leq$ Initial specified value<br>Cap. Change : within $\pm 20\%$ of initial measured value<br>$\tan \delta$ : $\leq 200\%$ of initial specified value |
| Shelf Life                      | Test conditions  | Post test requirements at +20°C  |
|                                 | Duration : 1000 hours<br>Ambient temp. : +105°C<br>Applied voltage : (None)  | Same limits for high temperature loading.  |
| Others                          | JIS C - 5101 ( IES 60384 )   |  |

### CASE SIZE TABLE



|          |                |     |                  |     |  |  |  |  |
|----------|----------------|-----|------------------|-----|--|--|--|--|
| $\phi D$ | 4              | 5   | 6.3              | 8   |  |  |  |  |
| F        | 1.5            | 2.0 | 2.5              | 3.5 |  |  |  |  |
| $\phi d$ | 0.45           |     | 0.45             |     |  |  |  |  |
| $\alpha$ | (L $\leq$ 7) 1 |     | (L $\geq$ 9) 1.5 |     |  |  |  |  |

### 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 |
| 68~470                |             | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |

## KS Series

7mmL(高), -40°C ~ +105°C

### STANDARD RATINGS

| Voltage (Code) |      | 6.3V (0J) |                | 10V (1A)  |                | 16V (1C)  |                | 25V (1E)  |                |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap.(μF)       | Code | 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 7     | 29             | 4 x 7     | 29             |
| 22             | 226  | 4 x 7     | 34             | 4 x 7     | 34             | 4 x 7     | 38             | 5 x 7     | 45             |
| 33             | 336  | 4 x 7     | 37             | 4 x 7     | 40             | 5 x 7     | 50             | 5 x 7     | 55             |
| 47             | 476  | 4 x 7     | 44             | 5 x 7     | 50             | 5 x 7     | 60             | 6.3 x 7   | 67             |
| 100            | 107  | 5 x 7     | 67             | 6.3 x 7   | 83             | 6.3 x 7   | 92             | 6.3 x 7   | 95             |
| 220            | 227  | 6.3 x 7   | 112            | 8 x 7     | 140            |           |                | 8 x 7     | 158            |

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

Case Size φD x L(mm)

| Voltage (Code) |      | 35V (1V)  |                | 50V (1H)  |                |  |  |  |  |
|----------------|------|-----------|----------------|-----------|----------------|--|--|--|--|
| Cap.(μF)       | Code | Case Size | Ripple Current | Case Size | Ripple Current |  |  |  |  |
| 0.1            | 104  |           |                | 4 x 7     | 1.0            |  |  |  |  |
| 0.22           | 224  |           |                | 4 x 7     | 2.3            |  |  |  |  |
| 0.33           | 334  |           |                | 4 x 7     | 3.5            |  |  |  |  |
| 0.47           | 474  |           |                | 4 x 7     | 5.0            |  |  |  |  |
| 1              | 105  |           |                | 4 x 7     | 10             |  |  |  |  |
| 2.2            | 225  |           |                | 4 x 7     | 19             |  |  |  |  |
| 3.3            | 335  |           |                | 4 x 7     | 24             |  |  |  |  |
| 4.7            | 475  | 4 x 7     | 24             | 5 x 7     | 29             |  |  |  |  |
| 10             | 106  | 5 x 7     | 36             | 6.3 x 7   | 44             |  |  |  |  |
| 22             | 226  | 6.3 x 7   | 57             | 8 x 7     | 65             |  |  |  |  |
| 33             | 336  | 6.3 x 7   | 62             |           |                |  |  |  |  |
| 47             | 476  | 6.3 x 7   | 78             |           |                |  |  |  |  |
| 100            | 107  | 8 x 9     | 95             |           |                |  |  |  |  |
| 220            | 227  |           |                |           |                |  |  |  |  |

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

Case Size φD x L(mm)