

## PRODUCT IDENTIFICATION

### 1. Scope

This specification applies to FTK series of wire wound SMD type power inductors

### 2. Product Description and Identification (Part Number)

Description

Wire Wound SMD Type Power Inductor, FTKB,XX  $\mu\text{H} \pm X\%$  @XXX KHz/XXXV, XXX  $\Omega$ , XXXmA.



## PRODUCT IDENTIFICATION

| ①         | Type                                                     | ②       | Configuration        |
|-----------|----------------------------------------------------------|---------|----------------------|
| FTK       | Wire Wound SMD Type Power Inductors (With Metallic Base) | B       | B Type Base          |
| ③         | External Dimensions (L X H) (mm)                         | ④       | Nominal Inductance   |
| 0602~1207 |                                                          | Example | Nominal Value        |
|           |                                                          | 1R0     | 1.0 $\mu\text{H}$    |
|           |                                                          | 100     | 10 $\mu\text{H}$     |
|           |                                                          | 101     | 100 $\mu\text{H}$    |
| ⑤         | Inductance Tolerance                                     | ⑥       | Packing              |
| M         | $\pm 20\%$                                               | T       | Tape Carrier Package |
| N         | $\pm 30\%$                                               |         |                      |

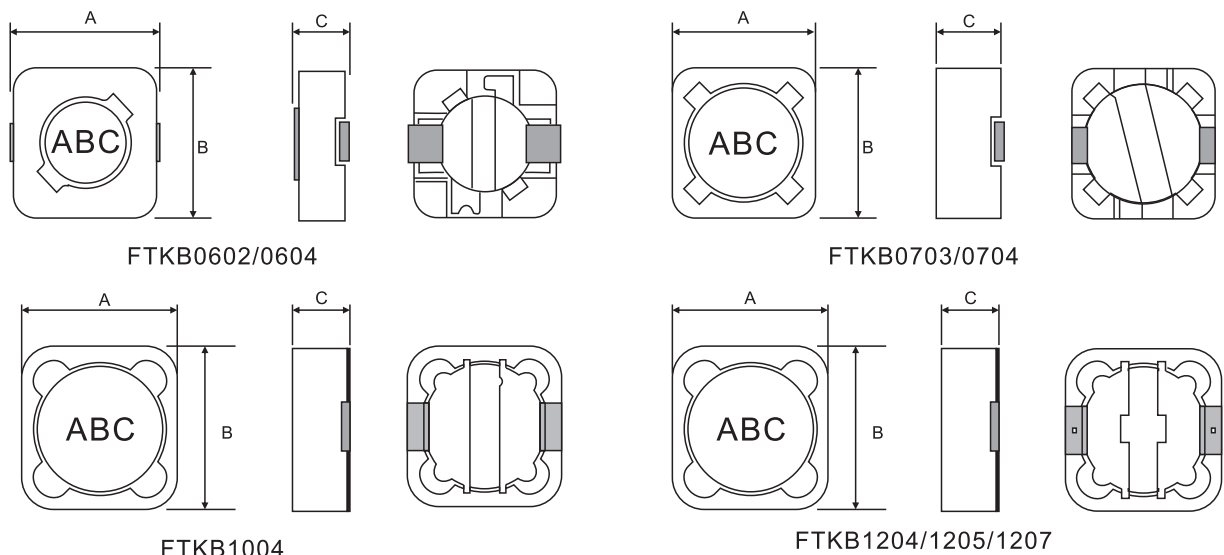
## ELECTRICAL CHARACTERISTICS

(1) Operating and storage temperature range (individual chip without packing):  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

(2) Storage temperature range (packaging conditions):  $-10^{\circ}\text{C}$  ~  $+40^{\circ}\text{C}$  and RH 70% (Max.)

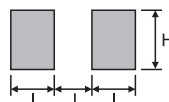
## SHAPE AND DIMENSIONS

(1) Dimensions and recommended PCB pattern for reflow soldering: See Fig.4-1, Fig.4-2 and Table 4-1.



**Fig. 4-1**

Recommended  
Land Pattern



**Fig. 4-2**

## SHAPE AND DIMENSIONS

[Table 4-1]

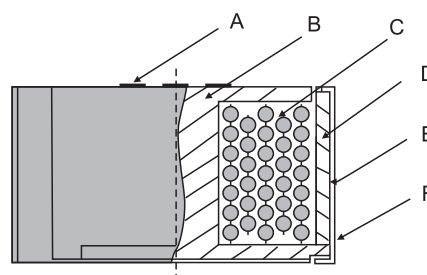
Unit: mm

| Series   | A max. | B max. | C max. | l typ. | J typ. | H typ. |
|----------|--------|--------|--------|--------|--------|--------|
| FTKB0602 | 7.00   | 6.80   | 3.0    | 1.4    | 4.6    | 1.9    |
| FTKB0604 | 7.00   | 6.80   | 5.0    | 1.4    | 4.6    | 1.9    |
| FTKB0703 | 7.80   | 7.80   | 4.0    | 1.6    | 4.8    | 2.2    |
| FTKB0704 | 7.80   | 7.80   | 5.0    | 1.6    | 4.8    | 2.2    |
| FTKB1004 | 10.5   | 10.5   | 5.0    | 2.0    | 6.8    | 4.4    |
| FTKB1204 | 12.5   | 12.5   | 5.0    | 2.9    | 7.0    | 5.4    |
| FTKB1205 | 12.5   | 12.5   | 6.0    | 2.9    | 7.0    | 5.4    |
| FTKB1207 | 12.5   | 12.5   | 8.0    | 2.9    | 7.0    | 5.4    |

(2) Structure and Components: See Table 4-2

[Table 4-2]

| Symbol | Components | Material                 |
|--------|------------|--------------------------|
| A      | MARK       | Ink                      |
| B      | DRUM CORE  | Ferrite                  |
| C      | WIRE       | Polyurethane copper wire |
| D      | RING CORE  | Ferrite                  |
| E      | GLUE       | Epoxy resin              |
| F      | ELECTRODE  | Copper plated with Sn    |



## SPECIFICATIONS

### FTKB0602 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | $I_r$              |
| FTKB0602-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.068              | 1.94               |
| FTKB0602-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.080              | 1.63               |
| FTKB0602-5R6NT | 5.6 $\pm$ 30% | 100k, 0.3V       | 0.096              | 1.40               |
| FTKB0602-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.150              | 1.10               |
| FTKB0602-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.200              | 1.00               |
| FTKB0602-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.230              | 0.90               |
| FTKB0602-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.270              | 0.80               |
| FTKB0602-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.340              | 0.74               |
| FTKB0602-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.380              | 0.66               |
| FTKB0602-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.450              | 0.59               |
| FTKB0602-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.490              | 0.54               |
| FTKB0602-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.690              | 0.50               |
| FTKB0602-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.780              | 0.46               |
| FTKB0602-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 1.070              | 0.42               |
| FTKB0602-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 1.210              | 0.38               |
| FTKB0602-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 1.390              | 0.34               |
| FTKB0602-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 1.900              | 0.31               |
| FTKB0602-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 2.180              | 0.28               |
| FTKB0602-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 2.770              | 0.26               |
| FTKB0602-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 3.120              | 0.23               |
| FTKB0602-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 4.380              | 0.22               |
| FTKB0602-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 4.940              | 0.19               |

## SPECIFICATIONS

### FTKB0604 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | I <sub>r</sub>     |
| FTKB0604-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.120              | 1.35               |
| FTKB0604-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.130              | 1.20               |
| FTKB0604-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.180              | 1.10               |
| FTKB0604-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.240              | 1.00               |
| FTKB0604-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.270              | 0.91               |
| FTKB0604-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.300              | 0.82               |
| FTKB0604-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.330              | 0.75               |
| FTKB0604-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.370              | 0.69               |
| FTKB0604-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.520              | 0.62               |
| FTKB0604-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.560              | 0.58               |
| FTKB0604-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.630              | 0.52               |
| FTKB0604-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.710              | 0.47               |
| FTKB0604-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 1.030              | 0.43               |
| FTKB0604-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 1.150              | 0.39               |
| FTKB0604-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 1.680              | 0.35               |
| FTKB0604-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 1.870              | 0.32               |
| FTKB0604-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 2.080              | 0.29               |
| FTKB0604-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 2.370              | 0.26               |
| FTKB0604-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 2.670              | 0.23               |
| FTKB0604-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 2.940              | 0.22               |
| FTKB0604-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 3.930              | 0.20               |

### FTKB0703 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | I <sub>r</sub>     |
| FTKB0703-2R2NT | 2.2 $\pm$ 30% | 100k, 0.3V       | 0.025              | 3.00               |
| FTKB0703-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.035              | 2.50               |
| FTKB0703-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.031              | 2.00               |
| FTKB0703-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.072              | 1.68               |
| FTKB0703-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.098              | 1.52               |
| FTKB0703-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.130              | 1.33               |
| FTKB0703-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.140              | 1.20               |
| FTKB0703-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.190              | 1.07               |
| FTKB0703-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.210              | 0.96               |
| FTKB0703-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.240              | 0.91               |
| FTKB0703-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.320              | 0.77               |
| FTKB0703-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.360              | 0.76               |
| FTKB0703-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.470              | 0.68               |
| FTKB0703-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.520              | 0.61               |
| FTKB0703-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.690              | 0.57               |
| FTKB0703-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.790              | 0.50               |
| FTKB0703-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 0.890              | 0.49               |
| FTKB0703-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 1.270              | 0.43               |
| FTKB0703-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 1.450              | 0.39               |
| FTKB0703-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 1.650              | 0.35               |
| FTKB0703-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 2.310              | 0.32               |
| FTKB0703-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 2.620              | 0.28               |
| FTKB0703-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 2.940              | 0.26               |
| FTKB0703-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 4.180              | 0.24               |
| FTKB0703-561MT | 560 $\pm$ 20% | 1k, 0.3V         | 4.670              | 0.22               |

## SPECIFICATIONS

### FTKB0704 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | $I_r$              |
| FTKB0704-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.049              | 1.84               |
| FTKB0704-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.058              | 1.71               |
| FTKB0704-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.081              | 1.47               |
| FTKB0704-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.091              | 1.31               |
| FTKB0704-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.110              | 1.23               |
| FTKB0704-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.150              | 1.12               |
| FTKB0704-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.170              | 0.96               |
| FTKB0704-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.230              | 0.91               |
| FTKB0704-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.260              | 0.88               |
| FTKB0704-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.350              | 0.75               |
| FTKB0704-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.380              | 0.69               |
| FTKB0704-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.430              | 0.61               |
| FTKB0704-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.610              | 0.60               |
| FTKB0704-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 0.660              | 0.52               |
| FTKB0704-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 0.880              | 0.46               |
| FTKB0704-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 0.980              | 0.42               |
| FTKB0704-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 1.170              | 0.36               |
| FTKB0704-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 1.640              | 0.34               |
| FTKB0704-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 1.860              | 0.32               |
| FTKB0704-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 2.850              | 0.29               |
| FTKB0704-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 3.010              | 0.26               |
| FTKB0704-561MT | 560 $\pm$ 20% | 1k, 0.3V         | 3.620              | 0.23               |

### FTKB1004 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | $I_r$              |
| FTKB1004-2R2NT | 2.2 $\pm$ 30% | 100k, 0.3V       | 0.018              | 4.00               |
| FTKB1004-3R8NT | 3.8 $\pm$ 30% | 100k, 0.3V       | 0.028              | 3.50               |
| FTKB1004-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.035              | 3.20               |
| FTKB1004-6R8NT | 6.8 $\pm$ 30% | 100k, 0.3V       | 0.044              | 2.80               |
| FTKB1004-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.050              | 2.40               |
| FTKB1004-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.054              | 2.25               |
| FTKB1004-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.061              | 2.00               |
| FTKB1004-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.084              | 1.80               |
| FTKB1004-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.094              | 1.65               |
| FTKB1004-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.110              | 1.45               |
| FTKB1004-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.150              | 1.35               |
| FTKB1004-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.170              | 1.20               |
| FTKB1004-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.210              | 1.10               |
| FTKB1004-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.230              | 1.00               |
| FTKB1004-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.260              | 0.93               |
| FTKB1004-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.360              | 0.84               |
| FTKB1004-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.410              | 0.76               |
| FTKB1004-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 0.450              | 0.70               |
| FTKB1004-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 0.640              | 0.63               |
| FTKB1004-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 0.840              | 0.57               |
| FTKB1004-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 0.960              | 0.52               |
| FTKB1004-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 1.070              | 0.47               |
| FTKB1004-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 1.370              | 0.43               |
| FTKB1004-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 1.550              | 0.39               |
| FTKB1004-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 1.740              | 0.36               |

Specifications subject to change without notice. Please check our website for latest informations.

## SPECIFICATIONS

### FTKB1204 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | I <sub>r</sub>     |
| FTKB1204-1R0NT | 1.0 $\pm$ 30% | 100k,0.3V        | 0.010              | 7.00               |
| FTKB1204-2R2NT | 2.2 $\pm$ 30% | 100k,0.3V        | 0.014              | 5.70               |
| FTKB1204-3R3NT | 3.3 $\pm$ 30% | 100k,0.3V        | 0.015              | 5.20               |
| FTKB1204-4R7NT | 4.7 $\pm$ 30% | 100k,0.3V        | 0.018              | 4.90               |
| FTKB1204-5R6NT | 5.6 $\pm$ 30% | 100k,0.3V        | 0.020              | 4.50               |
| FTKB1204-6R8NT | 6.8 $\pm$ 30% | 100k,0.3V        | 0.023              | 4.20               |
| FTKB1204-8R2NT | 8.2 $\pm$ 30% | 100k,0.3V        | 0.026              | 4.00               |
| FTKB1204-100MT | 10 $\pm$ 20%  | 1k,0.3V          | 0.028              | 3.80               |
| FTKB1204-120MT | 12 $\pm$ 20%  | 1k,0.3V          | 0.038              | 3.50               |
| FTKB1204-150MT | 15 $\pm$ 20%  | 1k,0.3V          | 0.050              | 3.20               |
| FTKB1204-180MT | 18 $\pm$ 20%  | 1k,0.3V          | 0.057              | 3.10               |
| FTKB1204-220MT | 22 $\pm$ 20%  | 1k,0.3V          | 0.066              | 2.90               |
| FTKB1204-270MT | 27 $\pm$ 20%  | 1k,0.3V          | 0.080              | 2.80               |
| FTKB1204-330MT | 33 $\pm$ 20%  | 1k,0.3V          | 0.097              | 2.70               |
| FTKB1204-390MT | 39 $\pm$ 20%  | 1k,0.3V          | 0.132              | 2.10               |
| FTKB1204-470MT | 47 $\pm$ 20%  | 1k,0.3V          | 0.160              | 1.90               |
| FTKB1204-560MT | 56 $\pm$ 20%  | 1k,0.3V          | 0.190              | 1.80               |
| FTKB1204-680MT | 68 $\pm$ 20%  | 1k,0.3V          | 0.220              | 1.50               |
| FTKB1204-820MT | 82 $\pm$ 20%  | 1k,0.3V          | 0.260              | 1.30               |
| FTKB1204-101MT | 100 $\pm$ 20% | 1k,0.3V          | 0.310              | 1.20               |
| FTKB1204-121MT | 120 $\pm$ 20% | 1k,0.3V          | 0.380              | 1.10               |
| FTKB1204-151MT | 150 $\pm$ 20% | 1k,0.3V          | 0.530              | 0.95               |
| FTKB1204-181MT | 180 $\pm$ 20% | 1k,0.3V          | 0.620              | 0.85               |
| FTKB1204-221MT | 220 $\pm$ 20% | 1k,0.3V          | 0.700              | 0.80               |
| FTKB1204-271MT | 270 $\pm$ 20% | 1k,0.3V          | 0.870              | 0.60               |
| FTKB1204-331MT | 330 $\pm$ 20% | 1k,0.3V          | 0.990              | 0.50               |
| FTKB1204-471MT | 470 $\pm$ 20% | 1k,0.3V          | 1.100              | 0.25               |

## SPECIFICATIONS

### FTKB1205 TYPE

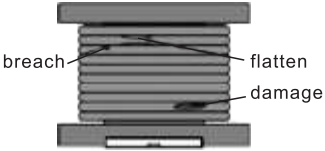



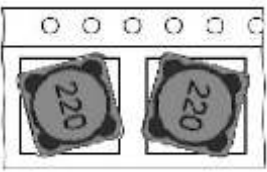
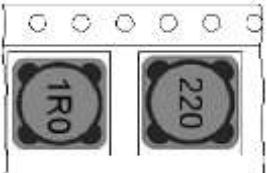
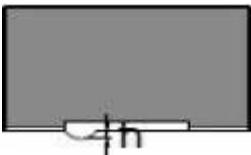
| Part Number    | Inductance     | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|----------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$  | Hz, V            | $\Omega$           | A                  |
| Symbol         | L              | -                | DCR                | $I_r$              |
| FTKB1205-1R0NT | 1.0 $\pm$ 30%  | 100k, 0.3V       | 0.010              | 8.00               |
| FTKB1205-2R2NT | 2.2 $\pm$ 30%  | 100k, 0.3V       | 0.014              | 7.80               |
| FTKB1205-2R4NT | 2.4 $\pm$ 30%  | 100k, 0.3V       | 0.014              | 7.50               |
| FTKB1205-3R3NT | 3.3 $\pm$ 30%  | 100k, 0.3V       | 0.014              | 6.80               |
| FTKB1205-4R7NT | 4.7 $\pm$ 30%  | 100k, 0.3V       | 0.020              | 5.60               |
| FTKB1205-5R8NT | 5.8 $\pm$ 30%  | 100k, 0.3V       | 0.020              | 5.20               |
| FTKB1205-8R2NT | 8.2 $\pm$ 30%  | 100k, 0.3V       | 0.021              | 4.40               |
| FTKB1205-100MT | 10 $\pm$ 20%   | 1k,0.3V          | 0.025              | 4.00               |
| FTKB1205-120MT | 12 $\pm$ 20%   | 1k,0.3V          | 0.027              | 3.50               |
| FTKB1205-150MT | 15 $\pm$ 20%   | 1k,0.3V          | 0.030              | 3.30               |
| FTKB1205-180MT | 18 $\pm$ 20%   | 1k,0.3V          | 0.034              | 3.00               |
| FTKB1205-220MT | 22 $\pm$ 20%   | 1k,0.3V          | 0.036              | 2.80               |
| FTKB1205-270MT | 27 $\pm$ 20%   | 1k,0.3V          | 0.051              | 2.30               |
| FTKB1205-330MT | 33 $\pm$ 20%   | 1k,0.3V          | 0.057              | 2.10               |
| FTKB1205-390MT | 39 $\pm$ 20%   | 1k,0.3V          | 0.068              | 2.00               |
| FTKB1205-470MT | 47 $\pm$ 20%   | 1k,0.3V          | 0.075              | 1.80               |
| FTKB1205-560MT | 56 $\pm$ 20%   | 1k,0.3V          | 0.110              | 1.70               |
| FTKB1205-680MT | 68 $\pm$ 20%   | 1k,0.3V          | 0.120              | 1.50               |
| FTKB1205-820MT | 82 $\pm$ 20%   | 1k,0.3V          | 0.140              | 1.40               |
| FTKB1205-101MT | 100 $\pm$ 20%  | 1k,0.3V          | 0.160              | 1.30               |
| FTKB1205-121MT | 120 $\pm$ 20%  | 1k,0.3V          | 0.170              | 1.10               |
| FTKB1205-151MT | 150 $\pm$ 20%  | 1k,0.3V          | 0.230              | 1.00               |
| FTKB1205-181MT | 180 $\pm$ 20%  | 1k,0.3V          | 0.290              | 0.90               |
| FTKB1205-221MT | 220 $\pm$ 20%  | 1k,0.3V          | 0.400              | 0.80               |
| FTKB1205-271MT | 270 $\pm$ 20%  | 1k,0.3V          | 0.460              | 0.75               |
| FTKB1205-331MT | 330 $\pm$ 20%  | 1k,0.3V          | 0.510              | 0.68               |
| FTKB1205-391MT | 390 $\pm$ 20%  | 1k,0.3V          | 0.690              | 0.65               |
| FTKB1205-471MT | 470 $\pm$ 20%  | 1k,0.3V          | 0.770              | 0.58               |
| FTKB1205-561MT | 560 $\pm$ 20%  | 1k,0.3V          | 0.860              | 0.54               |
| FTKB1205-681MT | 680 $\pm$ 20%  | 1k,0.3V          | 1.200              | 0.48               |
| FTKB1205-821MT | 820 $\pm$ 20%  | 1k,0.3V          | 1.340              | 0.43               |
| FTKB1205-102MT | 1000 $\pm$ 20% | 1k,0.3V          | 1.800              | 0.40               |

## SPECIFICATIONS

### FTKB1207 TYPE

| Part Number    | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|----------------|---------------|------------------|--------------------|--------------------|
| Units          | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol         | L             | -                | DCR                | I <sub>r</sub>     |
| FTKB1207-1R0NT | 1.0±30%       | 100k, 0.3V       | 0.009              | 10.00              |
| FTKB1207-2R2NT | 2.2±30%       | 100k, 0.3V       | 0.012              | 8.00               |
| FTKB1207-2R7NT | 2.7±30%       | 100k, 0.3V       | 0.013              | 8.00               |
| FTKB1207-3R3NT | 3.3±30%       | 100k, 0.3V       | 0.013              | 8.00               |
| FTKB1207-3R9NT | 3.9±30%       | 100k, 0.3V       | 0.013              | 7.50               |
| FTKB1207-4R7NT | 4.7±30%       | 100k, 0.3V       | 0.016              | 6.80               |
| FTKB1207-6R1NT | 6.1±30%       | 100k, 0.3V       | 0.018              | 6.60               |
| FTKB1207-6R8NT | 6.8±30%       | 100k, 0.3V       | 0.019              | 6.60               |
| FTKB1207-7R6NT | 7.6±30%       | 100k, 0.3V       | 0.020              | 5.90               |
| FTKB1207-8R2NT | 8.2±30%       | 100k, 0.3V       | 0.020              | 5.60               |
| FTKB1207-100MT | 10±20%        | 1k, 0.3V         | 0.021              | 5.40               |
| FTKB1207-120MT | 12±20%        | 1k, 0.3V         | 0.024              | 4.90               |
| FTKB1207-150MT | 15±20%        | 1k, 0.3V         | 0.027              | 4.50               |
| FTKB1207-180MT | 18±20%        | 1k, 0.3V         | 0.039              | 3.90               |
| FTKB1207-220MT | 22±20%        | 1k, 0.3V         | 0.043              | 3.60               |
| FTKB1207-270MT | 27±20%        | 1k, 0.3V         | 0.046              | 3.40               |
| FTKB1207-330MT | 33±20%        | 1k, 0.3V         | 0.065              | 3.00               |
| FTKB1207-390MT | 39±20%        | 1k, 0.3V         | 0.073              | 2.75               |
| FTKB1207-470MT | 47±20%        | 1k, 0.3V         | 0.100              | 2.50               |
| FTKB1207-560MT | 56±20%        | 1k, 0.3V         | 0.110              | 2.35               |
| FTKB1207-680MT | 68±20%        | 1k, 0.3V         | 0.140              | 2.10               |
| FTKB1207-820MT | 82±20%        | 1k, 0.3V         | 0.160              | 1.95               |
| FTKB1207-101MT | 100±20%       | 1k, 0.3V         | 0.220              | 1.70               |
| FTKB1207-121MT | 120±20%       | 1k, 0.3V         | 0.250              | 1.60               |
| FTKB1207-151MT | 150±20%       | 1k, 0.3V         | 0.280              | 1.42               |
| FTKB1207-181MT | 180±20%       | 1k, 0.3V         | 0.350              | 1.30               |
| FTKB1207-221MT | 220±20%       | 1k, 0.3V         | 0.390              | 1.16               |
| FTKB1207-271MT | 270±20%       | 1k, 0.3V         | 0.560              | 1.06               |
| FTKB1207-331MT | 330±20%       | 1k, 0.3V         | 0.640              | 0.95               |
| FTKB1207-391MT | 390±20%       | 1k, 0.3V         | 0.700              | 0.88               |
| FTKB1207-471MT | 470±20%       | 1k, 0.3V         | 0.980              | 0.79               |
| FTKB1207-561MT | 560±20%       | 1k, 0.3V         | 1.070              | 0.73               |
| FTKB1207-681MT | 680±20%       | 1k, 0.3V         | 1.460              | 0.67               |
| FTKB1207-821MT | 820±20%       | 1k, 0.3V         | 1.640              | 0.60               |
| FTKB1207-102MT | 1000±20%      | 1k, 0.3V         | 1.820              | 0.55               |

**VISUAL INSPECTION STANDARD OF PRODUCT**

| File No:        |                   | Applied to Wire Wound SMD Power Inductor Series                                     |                                                                                                                                                                                    |
|-----------------|-------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effective date: |                   |                                                                                     |                                                                                                                                                                                    |
| No.             | Defect Item       | Graphic                                                                             | Rejection identification                                                                                                                                                           |
| 1               | Line damage       |    | Enamelled copper wire ( with the exception of a solder joint ), injury, crushing, bending deformation, or other causes of copper wire bare, reduced cross sectional area defects   |
| 2               | Wire fracture     |    | Enamelled copper wire fracture                                                                                                                                                     |
| 3               | Printing defects  |   | Printing defect, can not be correctly identified                                                                                                                                   |
| 4               | Core chipping     |  | (1)length $l \geq 1/8$ Upper swing diameter or depth $\geq 1/5$ Placed on the thickness<br>(2)width $d \geq 1/10$ Upper swing diameter or depth $\geq 1/5$ Placed on the thickness |
| 5               | Tape card feeding |  | Products in the carrier tape to shake                                                                                                                                              |
| 6               | Mixed material    |  | Different models of product mix                                                                                                                                                    |
| 7               | Electrode uneven  |  | Single or two electrodes is localized in the same plane, height difference $h > 0.1\text{mm}$                                                                                      |



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