

## Thick Film Chip Resistor ACTA Series

Automotive  
AEC-Q200

RoHS Compliant  
Halogen Free  
REACH Compliant



Metal Alloy

Thick Film

High  
Reliability

### Part Numbering

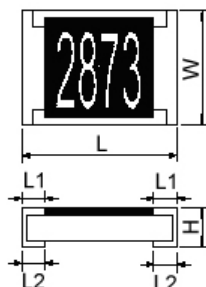
| A     | CTA            | 00           | 0402                   | -            | 10R2               | F         | 00            |
|-------|----------------|--------------|------------------------|--------------|--------------------|-----------|---------------|
| Grade | Product Series | Control Code | Dimensions Code (inch) | Special Code | Nominal Resistance | Tolerance | Internal Code |
|       |                |              | 0201 0.6x0.3x0.23      |              | 10Ω 100X           | B ±0.1%   |               |
|       |                |              | 0402 1.0x0.5x0.3       |              | 10.2Ω 10R2         | D ±0.5%   |               |
|       |                |              | 0603 1.6x0.8x0.45      |              | 10KΩ 1002          | F ±1%     |               |
|       |                |              | 0805 2.0x1.25x0.5      |              |                    | G ±2%     |               |
|       |                |              | 1206 3.05x1.55x0.5     |              |                    | J ±5%     |               |
|       |                |              | 1210 3.05x2.55x0.55    |              |                    |           |               |
|       |                |              | 2010 5.0x2.5x0.55      |              |                    |           |               |
|       |                |              | 2512 6.3x3.2x0.55      |              |                    |           |               |

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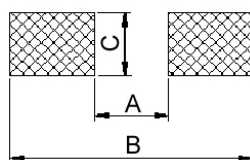
## ACTA Type

### ■ Dimensions



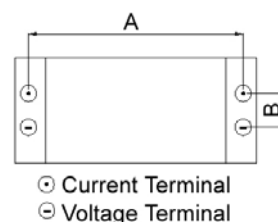
unit:mm

### ■ Recommended Land Pattern



unit:mm

### ■ Measurement Point



unit:mm

| Type       | Dimensions |           |           |           |           | Recommended Land Pattern |     |     | Measurement Point |            |
|------------|------------|-----------|-----------|-----------|-----------|--------------------------|-----|-----|-------------------|------------|
|            | L          | W         | H         | L1        | L2        | A                        | B   | C   | A<br>±0.05        | B<br>±0.05 |
| ACTA000201 | 0.60±0.03  | 0.30±0.03 | 0.23±0.03 | 0.10±0.05 | 0.15±0.05 | 0.3                      | 1   | 0.4 | 0.44              | 0.22       |
| ACTA000402 | 1.00±0.10  | 0.50±0.05 | 0.30±0.05 | 0.20±0.10 | 0.25±0.10 | 0.5                      | 1.5 | 0.6 | 0.8               | 0.24       |
| ACTA000603 | 1.60±0.10  | 0.80±0.10 | 0.45±0.10 | 0.30±0.15 | 0.30±0.15 | 0.8                      | 2.1 | 0.9 | 1.35              | 0.35       |
| ACTA000805 | 2.00±0.10  | 1.25±0.10 | 0.50±0.10 | 0.35±0.20 | 0.35±0.15 | 1.2                      | 3   | 1.3 | 1.8               | 0.35       |
| ACTA001206 | 3.05±0.10  | 1.55±0.10 | 0.50±0.10 | 0.45±0.20 | 0.35±0.15 | 2.2                      | 4.2 | 1.6 | 2.9               | 0.35       |
| ACTA001210 | 3.05±0.10  | 2.55±0.10 | 0.55±0.10 | 0.50±0.20 | 0.50±0.20 | 2.2                      | 4.2 | 2.8 | 2.9               | 0.35       |
| ACTA002012 | 5.00±0.20  | 2.50±0.20 | 0.55±0.10 | 0.60±0.20 | 0.60±0.20 | 3.5                      | 6.1 | 2.8 | 4.5               | 1.15       |
| ACTA002512 | 6.30±0.20  | 3.20±0.20 | 0.55±0.10 | 0.60±0.20 | 0.60±0.20 | 3.8                      | 8   | 3.5 | 5.9               | 1.6        |

## Electrical Characteristics Resistance Range:

| Type                        | Rated Power at 70℃ (W) | Working Voltage (V) Max. | Overload Voltage (V) Max. | T.C.R (ppm/℃)                    | Resistance Range (Ω) |           |           |          | JUMPER Rated Current (A) |     | JUMPER Resistance Value (mΩ) Max. |     |
|-----------------------------|------------------------|--------------------------|---------------------------|----------------------------------|----------------------|-----------|-----------|----------|--------------------------|-----|-----------------------------------|-----|
|                             |                        |                          |                           |                                  | ±0.1%                | ±0.5%     | ±1%       | ±2%,±5%  | ±5%                      | ±1% | ±5%                               | ±1% |
|                             |                        |                          |                           |                                  | E-24、E-96            | E-24、E-96 | E-24、E-96 | E-24     |                          |     |                                   |     |
| ACTA000201                  | 1/20                   | 25                       | 50                        | -200+400                         | -                    | 1≤R<10    | 1≤R<10    | 1≤R<10   | 0.5                      | -   | 50                                | 35  |
|                             |                        |                          |                           | ±200                             | 47≤R≤1M              | 10≤R≤10M  | 10≤R≤10M  | 10≤R≤10M |                          |     |                                   |     |
| ACTA000402                  | 1/16                   | 50                       | 100                       | ±100                             | 100≤R≤1M             | 10≤R≤1M   | 10≤R≤22M  | 10≤R≤22M | 1                        | -   | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | -                    | -         | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| ACTA000603                  | 1/10                   | 75                       | 150                       | ±100                             | 100≤R≤1M             | 10≤R≤1M   | 10≤R≤22M  | 10≤R≤22M | 1                        | -   | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | -                    | 1≤R<10    | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| ACTA000805                  | 1/8                    | 150                      | 300                       | ±100                             | 100≤R≤1M             | 10≤R≤10M  | 10≤R≤27M  | 10≤R≤27M | 2                        | 2.5 | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | -                    | 1≤R<10    | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| ACTA001206                  | 1/4                    | 200                      | 400                       | ±100                             | 10≤R≤1M              | 10≤R≤10M  | 10≤R≤27M  | 10≤R≤27M | 2                        | 3.5 | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | 3≤R<10               | 1≤R<10    | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| ACTA001210                  | 1/2                    | 200                      | 400                       | ±100                             | 100≤R≤1M             | 10≤R≤10M  | 10≤R≤27M  | 10≤R≤27M | 2                        | 4   | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | -                    | -         | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| ACTA002010                  | 1                      | 200                      | 400                       | ±100                             | 100≤R≤1M             | 10≤R≤10M  | 10≤R≤20M  | 10≤R≤20M | 2                        | 7   | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | -                    | -         | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| ACTA002512                  | 1                      | 200                      | 400                       | ±100                             | 100≤R≤1M             | 10≤R≤10M  | 10≤R≤20M  | 10≤R≤20M | 2                        | 7   | 50                                | 20  |
|                             |                        |                          |                           | ±200                             | -                    | -         | 1≤R<10    | 1≤R<10   |                          |     |                                   |     |
| Operating Temperature Range |                        |                          |                           | -55℃ ~ +155℃ (0201:-55℃ ~ +125℃) |                      |           |           |          |                          |     |                                   |     |