

# DATA SHEET

## THICK FILM CHIP RESISTORS AUTOMOTIVE GRADE

AC series

$\pm 5\%$ ,  $\pm 1\%$ ,  $\pm 0.5\%$

Sizes 0201/0402/0603/0805/1206/

1210/1218/2010/2512

RoHS compliant & Halogen free





**MARKING**

**AC0201 / AC0402**



No marking

Fig. 1

**AC0603 / AC0805 / AC1206 / AC1210 / AC2010 / AC2512**



E-24 series: 3 digits,  $\pm 5\%$   
First two digits for significant figure and 3rd digit for number of zeros

Fig. 2 Value = 10 K $\Omega$

**AC0603**



E-24 series: 3 digits,  $\pm 1\%$  &  $\pm 0.5\%$   
One short bar under marking letter

Fig. 3 Value = 24  $\Omega$



E-96 series: 3 digits,  $\pm 1\%$  &  $\pm 0.5\%$   
First two digits for E-96 marking rule and 3rd letter for number of zeros

Fig. 4 Value = 12.4 K $\Omega$

**AC0805 / AC1206 / AC1210 / AC2010 / AC2512**



Both E-24 and E-96 series: 4 digits,  $\pm 1\%$  &  $\pm 0.5\%$   
First three digits for significant figure and 4th digit for number of zeros

Fig. 5 Value = 10 K $\Omega$

**AC1218**



E-24 series: 3 digits,  $\pm 5\%$   
First two digits for significant figure and 3rd digit for number of zeros

Fig. 6 Value = 10 K $\Omega$



Both E-24 and E-96 series: 4 digits,  $\pm 1\%$  &  $\pm 0.5\%$   
First three digits for significant figure and 4th digit for number of zeros

Fig. 7 Value = 10 K $\Omega$

**NOTE**

For further marking information, please refer to data sheet "Chip resistors marking". Marking of AC series is the same as RC series.

**CONSTRUCTION**

The resistors are constructed on top of an automotive grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive glaze. The resistive glaze is covered by a protective glass. The composition of the glaze is adjusted to give the approximately required resistance value and laser trimming of this resistive glaze achieves the value within tolerance. The whole element is covered by a protective overcoat. Size 0603 and bigger is marked with the resistance value on top. Finally, the two external terminations (Ni / matte tin) are added, as shown in Fig.8.

**OUTLINES**



**DIMENSIONS**

Table I For outlines, please refer to Fig. 9

| TYPE   | L (mm)     | W (mm)     | H (mm)     | l <sub>1</sub> (mm) | l <sub>2</sub> (mm) |
|--------|------------|------------|------------|---------------------|---------------------|
| AC0201 | 0.60±0.03  | 0.30±0.03  | 0.23±0.03  | 0.12±0.05           | 0.15±0.05           |
| AC0402 | 1.00 ±0.05 | 0.50 ±0.05 | 0.32 ±0.05 | 0.20 ±0.10          | 0.25 ±0.10          |
| AC0603 | 1.60 ±0.10 | 0.80 ±0.10 | 0.45 ±0.10 | 0.25 ±0.15          | 0.25 ±0.15          |
| AC0805 | 2.00 ±0.10 | 1.25 ±0.10 | 0.50 ±0.10 | 0.35 ±0.20          | 0.35 ±0.20          |
| AC1206 | 3.10 ±0.10 | 1.60 ±0.10 | 0.55 ±0.10 | 0.45 ±0.20          | 0.40 ±0.20          |
| AC1210 | 3.10 ±0.10 | 2.60 ±0.15 | 0.55 ±0.10 | 0.45 ±0.15          | 0.50 ±0.20          |
| AC1218 | 3.10 ±0.10 | 4.60 ±0.10 | 0.55 ±0.10 | 0.45 ±0.20          | 0.40 ±0.20          |
| AC2010 | 5.00 ±0.10 | 2.50 ±0.15 | 0.55 ±0.10 | 0.55 ±0.15          | 0.50 ±0.20          |
| AC2512 | 6.35 ±0.10 | 3.10 ±0.15 | 0.55 ±0.10 | 0.60 ±0.20          | 0.50 ±0.20          |



**ELECTRICAL CHARACTERISTICS**

Table 2

| TYPE   | POWER  | CHARACTERISTICS             |                      |                       |                                 |                                 |                                   |                 |
|--------|--------|-----------------------------|----------------------|-----------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------|
|        |        | Operating Temperature Range | Max. Working Voltage | Max. Overload Voltage | Dielectric Withstanding Voltage | Resistance Range                | Temperature Coefficient           | Jumper Criteria |
| AC0201 | 1/20 W | -55 °C to 155 °C            | 25V                  | 50V                   | 50V                             | 5% (E24)                        | $1\Omega \leq R \leq 10\Omega$    | Rated Current   |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | -100/+350ppm°C                    | 0.5A            |
|        |        |                             |                      |                       |                                 | 1% (E24/E96)                    | $10\Omega < R \leq 10M$           | Maximum         |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | $\pm 200\text{ppm}^\circ\text{C}$ | Current         |
| AC0402 | 1/16 W | -55 °C to 155 °C            | 50V                  | 100V                  | 100V                            | 0.5% (E24/E96)                  | $10M\Omega < R \leq 22M\Omega$    | Rated Current   |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | $\pm 200\text{ppm}^\circ\text{C}$ | 1A              |
|        |        |                             |                      |                       |                                 | Jumper<50mΩ                     | $10\Omega < R \leq 10M\Omega$     | Maximum         |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | $\pm 100\text{ppm}^\circ\text{C}$ | Current         |
| AC0603 | 1/10 W | -55 °C to 155 °C            | 75V                  | 150V                  | 150V                            | 5% (E24)                        | $1\Omega \leq R \leq 10\Omega$    | Rated Current   |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 22M\Omega$ | $\pm 200\text{ppm}^\circ\text{C}$ | 1A              |
|        |        |                             |                      |                       |                                 | 0.5%, 1% (E24/E96)              | $10\Omega < R \leq 10M\Omega$     | Maximum         |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | $\pm 100\text{ppm}^\circ\text{C}$ | Current         |
| AC0603 | 1/5 W  | -55 °C to 155 °C            | 75V                  | 150V                  | 150V                            | Jumper<50mΩ                     | $10M\Omega < R \leq 22M\Omega$    | Rated Current   |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | $\pm 200\text{ppm}^\circ\text{C}$ | 1A              |
|        |        |                             |                      |                       |                                 | 0.5%, 1% (E24/E96)              | $10\Omega < R \leq 10M\Omega$     | Maximum         |
|        |        |                             |                      |                       |                                 | $1\Omega \leq R \leq 10M\Omega$ | $\pm 100\text{ppm}^\circ\text{C}$ | Current         |

| TYPE   | POWER | CHARACTERISTICS             |                      |                       |                                 |                    |                         |                 |
|--------|-------|-----------------------------|----------------------|-----------------------|---------------------------------|--------------------|-------------------------|-----------------|
|        |       | Operating Temperature Range | Max. Working Voltage | Max. Overload Voltage | Dielectric Withstanding Voltage | Resistance Range   | Temperature Coefficient | Jumper Criteria |
| AC0805 | 1/8 W | -55 °C to 155 °C            | 150V                 | 300V                  | 300V                            | 5% (E24)           | 1 Ω ≤ R ≤ 10 Ω          | Rated Current   |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 22 MΩ    | ±200ppm°C               | 2A              |
|        |       |                             |                      |                       |                                 | 0.5%, 1% (E24/E96) | 10 Ω < R ≤ 10 MΩ        | Maximum Current |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±100ppm°C               | 5A              |
|        |       |                             |                      |                       |                                 | Jumper < 50mΩ      | 10 MΩ < R ≤ 22 MΩ       |                 |
|        |       |                             |                      |                       |                                 |                    | ±200ppm°C               |                 |
| AC1206 | 1/4 W | -55 °C to 155 °C            | 150V                 | 300V                  | 300V                            | 5% (E24)           | 1 Ω ≤ R ≤ 10 Ω          | Rated Current   |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±200 ppm°C              | 2A              |
|        |       |                             |                      |                       |                                 | 0.5%, 1% (E24/E96) | 10 Ω < R ≤ 10 MΩ        | Maximum Current |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±100 ppm°C              | 10A             |
|        |       |                             |                      |                       |                                 | Jumper < 50mΩ      | 10 MΩ < R ≤ 22 MΩ       |                 |
|        |       |                             |                      |                       |                                 |                    | ±200ppm°C               |                 |
| AC1206 | 1/4 W | -55 °C to 155 °C            | 200V                 | 400V                  | 500V                            | 5% (E24)           | 1 Ω ≤ R ≤ 10 Ω          | Rated Current   |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 22 MΩ    | ±200ppm°C               | 2A              |
|        |       |                             |                      |                       |                                 | 0.5%, 1% (E24/E96) | 10 Ω < R ≤ 10 MΩ        | Maximum Current |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±100ppm°C               | 10A             |
|        |       |                             |                      |                       |                                 | Jumper < 50mΩ      | 10 MΩ < R ≤ 22 MΩ       |                 |
|        |       |                             |                      |                       |                                 |                    | ±200ppm°C               |                 |
| AC1210 | 1/2 W | -55 °C to 155 °C            | 200V                 | 400V                  | 500V                            | 5% (E24)           | 1 Ω ≤ R ≤ 10 Ω          | Rated Current   |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±200 ppm°C              | 2A              |
|        |       |                             |                      |                       |                                 | 0.5%, 1% (E24/E96) | 10 Ω < R ≤ 10 MΩ        | Maximum Current |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±100ppm°C               | 10A             |
|        |       |                             |                      |                       |                                 | Jumper < 50mΩ      | 10 MΩ < R ≤ 22 MΩ       |                 |
|        |       |                             |                      |                       |                                 |                    | ±200ppm°C               |                 |
| AC1210 | 1 W   | -55 °C to 155 °C            | 200V                 | 500V                  | 500V                            | 5% (E24)           | 1 Ω ≤ R ≤ 10 Ω          | Rated Current   |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±200 ppm°C              | 2A              |
|        |       |                             |                      |                       |                                 | 0.5%, 1% (E24/E96) | 10 Ω < R ≤ 10 MΩ        | Maximum Current |
|        |       |                             |                      |                       |                                 | 1 Ω ≤ R ≤ 10 MΩ    | ±100 ppm°C              | 10A             |
|        |       |                             |                      |                       |                                 | Jumper < 50mΩ      | 10 MΩ < R ≤ 22 MΩ       |                 |
|        |       |                             |                      |                       |                                 |                    | ±200ppm°C               |                 |

| TYPE   | POWER | CHARACTERISTICS             |                      |                       |                                 |   |  |   |
|--------|-------|-----------------------------|----------------------|-----------------------|---------------------------------|---|--|---|
|        |       | Operating Temperature Range | Max. Working Voltage | Max. Overload Voltage | Dielectric Withstanding Voltage | Resistance Range  | Temperature Coefficient  | Jumper Criteria                               |
| AC1218 | 1 W   | -55 °C to 155 °C            | 200V                 | 500V                  | 500V                            | 5% (E24)<br>1Ω ≤ R ≤ 1MΩ<br>0.5%, 1% (E24/E96)<br>1Ω ≤ R ≤ 1MΩ<br>Jumper<50mΩ   | 1Ω ≤ R ≤ 10Ω<br>±200ppm°C<br>10Ω < R ≤ 1MΩ<br>±100ppm°C                                  | Rated Current<br>6A<br>Maximum Current<br>10A |
|        | 1.5W  | -55 °C to 155 °C            | 200V                 | 500V                  | 500V                            | 5% (E24)<br>1Ω ≤ R ≤ 1MΩ<br>0.5%, 1% (E24/E96)<br>1Ω ≤ R ≤ 1MΩ                  | 1Ω ≤ R ≤ 10Ω<br>±200 ppm°C<br>10Ω < R ≤ 1MΩ<br>±100 ppm°C                                |   |
| AC2010 | 3/4 W | -55 °C to 155 °C            | 200V                 | 500V                  | 500V                            | 5% (E24)<br>1Ω ≤ R ≤ 22MΩ<br>0.5%, 1% (E24/E96)<br>1Ω ≤ R ≤ 10MΩ<br>Jumper<50mΩ | 1Ω ≤ R ≤ 10Ω<br>±200ppm°C<br>10Ω < R ≤ 10MΩ<br>±100ppm°C<br>10MΩ < R ≤ 22MΩ<br>±200ppm°C | Rated Current<br>2A<br>Maximum Current<br>10A |
|        | 1.25W | -55 °C to 155 °C            | 200V                 | 500V                  | 500V                            | 5% (E24)<br>1Ω ≤ R ≤ 10MΩ<br>0.5%, 1% (E24/E96)<br>1Ω ≤ R ≤ 10MΩ                | 1Ω ≤ R ≤ 10Ω<br>±200 ppm°C<br>10Ω < R ≤ 10MΩ<br>±100 ppm°C                               |   |
| AC2512 | 1 W   | -55 °C to 155 °C            | 200V                 | 500V                  | 500V                            | 5% (E24)<br>1Ω ≤ R ≤ 22MΩ<br>0.5%, 1% (E24/E96)<br>1Ω ≤ R ≤ 10MΩ<br>Jumper<50mΩ | 1Ω ≤ R ≤ 10Ω<br>±200ppm°C<br>10Ω < R ≤ 10MΩ<br>±100ppm°C<br>10MΩ < R ≤ 22MΩ<br>±200ppm°C | Rated Current<br>2A<br>Maximum Current<br>10A |
|        | 2 W   | -55 °C to 155 °C            | 200V                 | 400V                  | 500V                            | 5% (E24)<br>1Ω ≤ R ≤ 10MΩ<br>0.5%, 1% (E24/E96)<br>1Ω ≤ R ≤ 10MΩ                | 1Ω ≤ R ≤ 10Ω<br>±200 ppm°C<br>10Ω < R ≤ 10MΩ<br>±100 ppm°C                               |   |

**FOOTPRINT AND SOLDERING PROFILES**

Recommended footprint and soldering profiles of AC-series is the same as RC-series. Please refer to data sheet “Chip resistors mounting”.

**PACKING STYLE AND PACKAGING QUANTITY**

Table 3 Packing style and packaging quantity

| PACKING STYLE            | REEL DIMENSION | AC0201 | AC0402 | AC0603 | AC0805 | AC1206 | AC1210 | AC1218 | AC2010 | AC2512 |
|--------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Paper taping reel (R)    | 7" (178 mm)    | 10,000 | 10,000 | 5,000  | 5,000  | 5,000  | 5,000  | ---    | ---    | ---    |
|                          | 10" (254 mm)   | 20,000 | 20,000 | 10,000 | 10,000 | 10,000 | 10,000 | ---    | ---    | ---    |
|                          | 13" (330 mm)   | 50,000 | 50,000 | 20,000 | 20,000 | 20,000 | 20,000 | ---    | ---    | ---    |
| Embossed taping reel (K) | 7" (178 mm)    | ---    | ---    | ---    | ---    | ---    | ---    | 4,000  | 4,000  | 4,000  |

**NOTE**

I. For paper/embossed tape and reel specifications/dimensions, please refer to data sheet “Chip resistors packing”.

**FUNCTIONAL DESCRIPTION**

**OPERATING TEMPERATURE RANGE**

Range: -55 °C to +155 °C

**POWER RATING**

Each type rated power at 70 °C:

- AC0201=1/20W (0.05W)
- AC0402=1/16W (0.0625W); 1/8W (0.125W)
- AC0603=1/10W (0.1W); 1/5W (0.2W)
- AC0805=1/8W (0.125W); 1/4 W(0.25 W)
- AC1206=1/4W (0.25W); 1/2 W (0.5 W)
- AC1210=1/2W (0.5W); 1W
- AC1218=1W; 1.5W
- AC2010=3/4W (0.75W); 1.25W
- AC2512=1 W; 2W

**RATED VOLTAGE**

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V = \sqrt{P \times R}$$

Or Maximum working voltage whichever is less

Where

V = Continuous rated DC or AC (rms) working voltage (V)

P = Rated power (W)

R = Resistance value (Ω)



Fig. 10 Maximum dissipation (P<sub>max</sub>) in percentage of rated power as a function of the operating ambient temperature (T<sub>amb</sub>)



**TESTS AND REQUIREMENTS**
**Table 4** Test condition, procedure and requirements

| TEST                         | TEST METHOD                                | PROCEDURE  | REQUIREMENTS   |
|------------------------------|--|--|--|
| High Temperature Exposure    | AEC-Q200 Test 3<br>MIL-STD-202 Method 108  | 1,000 hours at $T_A = 155\text{ }^{\circ}\text{C}$ , unpowered   | $\pm(1.0\%+0.05\Omega)$ for D/F tol<br>$\pm(2.0\%+0.05\Omega)$ for J tol<br><50 m $\Omega$ for Jumper                      |
| Moisture Resistance          | AEC-Q200 Test 6<br>MIL-STD-202 Method 106  | Each temperature / humidity cycle is defined at 8 hours (method 106F), 3 cycles / 24 hours for 10d. with $25\text{ }^{\circ}\text{C}$ / $65\text{ }^{\circ}\text{C}$ 95% R.H, without steps 7a & 7b, unpowered | $\pm(0.5\%+0.05\Omega)$ for D/F tol<br>$\pm(2.0\%+0.05\Omega)$ for J tol<br><100 m $\Omega$ for Jumper                     |
| Biased Humidity              | AEC-Q200 Test 7<br>MIL-STD-202 Method 103  | 1,000 hours; $85\text{ }^{\circ}\text{C}$ / 85% RH<br>10% of operating power<br>Measurement at $24\pm 4$ hours after test conclusion.  | $\pm(1.0\%+0.05\Omega)$ for D/F tol<br>$\pm(3.0\%+0.05\Omega)$ for J tol<br><100 m $\Omega$ for Jumper                     |
| Operational Life             | AEC-Q200 Test 8<br>MIL-STD-202 Method 108  | 1,000 hours at $125\text{ }^{\circ}\text{C}$ , derated voltage applied for 1.5 hours on, 0.5 hour off, still-air required  | $\pm(1.0\%+0.05\Omega)$ for D/F tol<br>$\pm(3.0\%+0.05\Omega)$ for J tol<br><100 m $\Omega$ for Jumper                     |
| Resistance to Soldering Heat | AEC-Q200 Test 15<br>MIL-STD-202 Method 210 | Condition B, no pre-heat of samples<br>Lead-free solder, $260\pm 5\text{ }^{\circ}\text{C}$ , $10\pm 1$ seconds immersion time<br>Procedure 2 for SMD: devices fluxed and cleaned with isopropanol             | $\pm(0.5\%+0.05\Omega)$ for D/F tol<br>$\pm(1.0\%+0.05\Omega)$ for J tol<br><50 m $\Omega$ for Jumper<br>No visible damage |
| Thermal Shock                | AEC-Q200 Test 16<br>MIL-STD-202 Method 107 | $-55/+125\text{ }^{\circ}\text{C}$<br>Number of cycles is 300. Devices mounted<br>Maximum transfer time is 20 seconds.<br>Dwell time is 15 minutes. Air – Air  | $\pm(0.5\%+0.05\Omega)$ for D/F tol<br>$\pm(1.0\%+0.05\Omega)$ for J tol<br><50 m $\Omega$ for Jumper                      |
| ESD                          | AEC-Q200 Test 17<br>AEC-Q200-002           | Human Body Model,<br>1 <sub>pos.</sub> + 1 <sub>neg.</sub> discharges<br>0201: 500V<br>0402/0603: 1KV<br>0805 and above: 2KV   | $\pm(3.0\%+0.05\Omega)$<br><50 m $\Omega$ for Jumper   |

| TEST   | TEST METHOD                      | PROCEDURE   | REQUIREMENTS  |
|--|----------------------------------|---|---|
| Solderability<br>- Wetting                     | AEC-Q200 Test 18<br>J-STD-002    | Electrical Test not required Magnification 50X<br>SMD conditions:<br>(a) Method B, aging 4 hours at 155 °C dry heat, dipping at 235±3 °C for 5±0.5 seconds.<br>(b) Method B, steam aging 8 hours, dipping at 215±3 °C for 5±0.5 seconds.<br>(c) Method D, steam aging 8 hours, dipping at 260±3 °C for 7±0.5 seconds.   | Well tinned (≥95% covered)<br>No visible damage                           |
| Board Flex                                     | AEC-Q200 Test 21<br>AEC-Q200-005 | Chips mounted on a 90mm glass epoxy resin PCB (FR4)<br>Bending for 0201/0402: 5 mm<br>0603/0805: 3 mm<br>1206 and above: 2 mm<br>Holding time: minimum 60 seconds   | ±(1.0%+0.05Ω)<br><50 mΩ for Jumper  |
| Temperature Coefficient of Resistance (T.C.R.) | MIL-STD-202 Method 304           | At +25/-55 °C and +25/+125 °C<br><br><b>Formula:</b><br>$T.C.R = \frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$<br>Where<br>t <sub>1</sub> =+25 °C or specified room temperature<br>t <sub>2</sub> =-55 °C or +125 °C test temperature<br>R <sub>1</sub> =resistance at reference temperature in ohms<br>R <sub>2</sub> =resistance at test temperature in ohms | Refer to table 2  |
| Short Time Overload                            | IEC60115-1 4.13                  | 2.5 times of rated voltage or maximum overload voltage whichever is less for 5 sec at room temperature  | ±(1.0%+0.05Ω) for D/F tol<br>±(2.0%+0.05Ω) for J tol<br><50 mΩ for Jumper |
| FOS  | ASTM-B-809-95                    | Sulfur (saturated vapor) 500 hours, 60±2°C, unpowered   | ±( 1.0%+0.05Ω)  |

**REVISION HISTORY**

| REVISION  | DATE          | CHANGE NOTIFICATION | DESCRIPTION   |
|-----------|---------------|---------------------|---|
| Version 7 | July 10, 2017 | -                   | - Add "3W" part number coding for 13" Reel & double power   |
| Version 6 | May 31, 2017  | -                   | - Add 10" packing   |
| Version 5 | Dec. 07, 2015 | -                   | - Add in AC double power  |
| Version 4 | May 25, 2015  | -                   | - Remove 7D packing<br>- Extend resistance range<br>- Add in AC0201<br>- Update FOS test and requirements         |
| Version 3 | Feb 13, 2014  | -                   | - Feature description updated<br>- add $\pm 0.5\%$<br>- delete 10" taping reel                                    |
| Version 2 | Feb. 10, 2012 | -                   | - Jumper criteria added<br>- AC1218 marking and outline figure updated  |
| Version 1 | Feb. 01, 2011 | -                   | - Case size 1210, 1218, 2010, 2512 extended<br>- Test method and procedure updated<br>- Packing style of 7D added |
| Version 0 | Nov. 10, 2010 | -                   | - First issue of this specification   |

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