

# DATA SHEET

## ANTI-SULFURATED CHIP RESISTORS AUTOMOTIVE GRADE

AA series

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

sizes 0201/0402/0603/0805/1206/  
1210/1218/2010/2512

RoHS compliant & Halogen free



**SCOPE**

This specification describes AA0201 to AA2512 chip resistors with lead-free terminations made by thick film process.

**APPLICATIONS**

- Car electronics
- Engine control unit
- Body control system
- Safety devices

**FEATURES**

- Superior resistance against sulfur containing atmosphere
- AEC-Q200 qualified
- Moisture sensitivity level: MSL1
- AA series soldering is compliant with J-STD-020D
- Halogen free epoxy
- RoHS compliant
- Reduce environmentally hazardous waste
- High component and equipment reliability
- The resistors are 100% performed by automatic optical inspection

**ORDERING INFORMATION - GLOBAL PART NUMBER**

Part number is identified by the series name, size, tolerance, packaging type, temperature coefficient, tapping reel and resistance value.

**GLOBAL PART NUMBER**

AA XXXX X X X XX XXXX L  
(1) (2) (3) (4) (5) (6) (7)

**(1) SIZE**

0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 1218 / 2010 / 2512

**(2) TOLERANCE**

D = ±0.5%

F = ±1%

J = ±5% (for Jumper ordering, use code of J)

**(3) PACKAGING TYPE**

R = Paper/PE taping reel

K = Embossed taping reel

**(4) TEMPERATURE COEFFICIENT OF RESISTANCE**

– = Base on spec

**(5) TAPING REEL**

07 = 7 inch dia. Reel

13 = 13 inch dia. Reel

**(6) RESISTANCE VALUE**

1Ω to 10 MΩ

There are 2~4 digits indicated the resistance value. Letter R/K/M is decimal point, no need to mention the last zero after R/K/M, e.g. 1K2, not 1K20.

**(7) DEFAULT CODE**

Letter L is the system default code for ordering only. (Note)

Resistance rule of global part number

| Resistance coding rule | Example                                  |
|------------------------|------------------------------------------|
| XXXX<br>(1 to 9.76 Ω)  | 1R = 1 Ω<br>1R5 = 1.5 Ω<br>9R76 = 9.76 Ω |
| XXRX<br>(10 to 97.6 Ω) | 10R = 10 Ω<br>97R6 = 97.6 Ω              |
| XXXR<br>(100 to 976 Ω) | 100R = 100 Ω<br>976R = 976 Ω             |
| XKXX<br>(1 to 9.76 KΩ) | 1K = 1,000 Ω<br>9K76 = 9760 Ω            |
| XMXX<br>(1 to 9.76 MΩ) | 1M = 1,000,000 Ω<br>9M76 = 9,760,000 Ω   |
| XXMX<br>(10 MΩ)        | 10M = 10,000,000 Ω                       |

**ORDERING EXAMPLE**

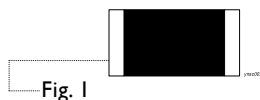
The ordering code for an AA0402 chip resistor, value 100 KΩ with ±1% tolerance, supplied in 7-inch tape reel is: AA0402FR-07100KL

**NOTE**

1. All our R-Chip products are RoHS compliant and Halogen free. "LFP" of the internal 2D reel label states "Lead-Free Process".
2. On customized label, "LFP" or specific symbol can be printed.

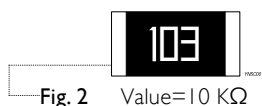
**MARKING**

AA0201 / AA0402



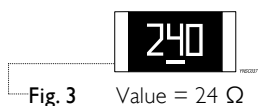
No marking

AA0603 / AA0805 / AA1206 / AA1210 / AA2010 / AA2512

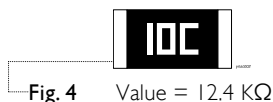
Value = 10 K $\Omega$ E-24 series: 3 digits,  $\pm 5\%$ 

First two digits for significant figure and 3rd digit for number of zeros

AA0603

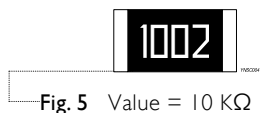
Value = 24  $\Omega$ E-24 series: 3 digits,  $\pm 1\%$ 

One short bar under marking letter

Value = 12.4 K $\Omega$ E-96 series: 3 digits,  $\pm 1\%$ 

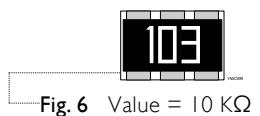
First two digits for E-96 marking rule and 3rd letter for number of zeros

AA0805 / AA1206 / AA1210 / AA2010 / AA2512

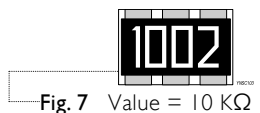
Value = 10 K $\Omega$ Both E-24 and E-96 series: 4 digits,  $\pm 1\%$ 

First three digits for significant figure and 4th digit for number of zeros

AA1218

Value = 10 K $\Omega$ E-24 series: 3 digits,  $\pm 5\%$ 

First two digits for significant figure and 3rd digit for number of zeros

Value = 10 K $\Omega$ Both E-24 and E-96 series: 4 digits,  $\pm 1\%$ 

First three digits for significant figure and 4th digit for number of zeros

**NOTE**

For further marking information, please refer to data sheet "Chip resistors marking". Marking of AA 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 lead-free 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.

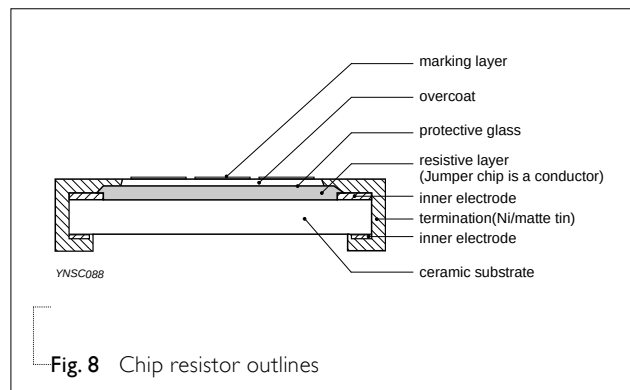
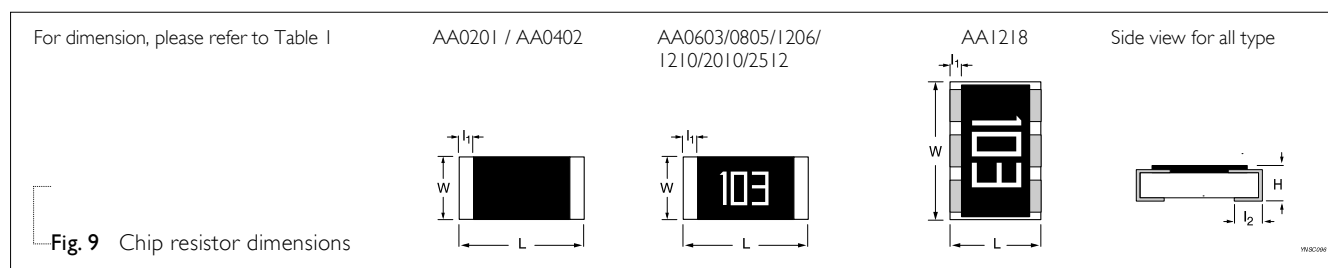
**OUTLINES****DIMENSIONS**

Table I For outlines, please refer to Fig. 9

| TYPE   | L (mm)     | W (mm)     | H (mm)     | I <sub>1</sub> (mm) | I <sub>2</sub> (mm) |
|--------|------------|------------|------------|---------------------|---------------------|
| AA0201 | 0.60 ±0.03 | 0.30 ±0.03 | 0.23 ±0.03 | 0.12 ±0.05          | 0.15 ±0.05          |
| AA0402 | 1.00 ±0.05 | 0.50 ±0.05 | 0.32 ±0.05 | 0.20 ±0.10          | 0.25 ±0.10          |
| AA0603 | 1.60 ±0.10 | 0.80 ±0.10 | 0.45 ±0.10 | 0.25 ±0.15          | 0.25 ±0.15          |
| AA0805 | 2.00 ±0.10 | 1.25 ±0.10 | 0.50 ±0.10 | 0.35 ±0.20          | 0.35 ±0.20          |
| AA1206 | 3.10 ±0.10 | 1.60 ±0.10 | 0.55 ±0.10 | 0.45 ±0.20          | 0.40 ±0.20          |
| AA1210 | 3.10 ±0.10 | 2.60 ±0.15 | 0.50 ±0.10 | 0.45 ±0.15          | 0.50 ±0.20          |
| AA1218 | 3.10 ±0.10 | 4.60 ±0.10 | 0.55 ±0.10 | 0.45 ±0.20          | 0.40 ±0.20          |
| AA2010 | 5.00 ±0.10 | 2.50 ±0.15 | 0.55 ±0.10 | 0.55 ±0.15          | 0.50 ±0.20          |
| AA2512 | 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   | RESISTANCE RANGE                                                                                                                     | CHARACTERISTICS             |                      |                       |                                 |                                                                                                                                                                | Jumper Criteria                         |
|--------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|-----------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|        |                                                                                                                                      | Operating Temperature Range | Max. Working Voltage | Max. Overload Voltage | Dielectric Withstanding Voltage | Temperature Coefficient of Resistance                                                                                                                          |                                         |
| AA0201 |                                                                                                                                      |                             | 25V                  | 50V                   | 50V                             | $1\Omega \leq R \leq 10\Omega$ ,<br>$-100/+400 \text{ ppm/}^\circ\text{C}$<br>$10\Omega < R \leq 10 \text{ M}\Omega$ ,<br>$\pm 300 \text{ ppm/}^\circ\text{C}$ | Rated Current 0.5A<br>Max. Current 1.0A |
| AA0402 |                                                                                                                                      |                             | 50 V                 | 100 V                 | 100 V                           |                                                                                                                                                                | Rated Current 1A<br>Max. Current 2A     |
| AA0603 | 5% (E24)<br>$1\Omega \leq R \leq 22 \text{ M}\Omega$                                                                                 |                             | 75V                  | 150 V                 | 150 V                           |                                                                                                                                                                | Rated Current 1A<br>Max. Current 2A     |
| AA0805 | (0201: Max. $10 \text{ M}\Omega$ .<br>1218: Max. $1 \text{ M}\Omega$ )                                                               |                             | 150 V                | 300 V                 | 300 V                           |                                                                                                                                                                | Rated Current 2A<br>Max. Current 5A     |
| AA1206 | 0.5%, 1% (E24/E96)<br>$1\Omega \leq R \leq 10 \text{ M}\Omega$<br>(1218: Max. $1 \text{ M}\Omega$ )<br>Jumper < $50 \text{ m}\Omega$ | -55 °C to +155 °C           | 200 V                | 400 V                 | 500 V                           | $1\Omega \leq R \leq 10\Omega$ ,<br>$\pm 200 \text{ ppm/}^\circ\text{C}$                                                                                       | Rated Current 2A<br>Max. Current 10A    |
| AA1210 |                                                                                                                                      |                             | 200 V                | 500 V                 | 500 V                           | $10\Omega < R \leq 10 \text{ M}\Omega$ ,<br>$\pm 150 \text{ ppm/}^\circ\text{C}$                                                                               | Rated Current 2A<br>Max. Current 10A    |
| AA1218 |                                                                                                                                      |                             | 200 V                | 500 V                 | 500 V                           | $10 \text{ M}\Omega < R \leq 22 \text{ M}\Omega$ ,<br>$\pm 200 \text{ ppm/}^\circ\text{C}$                                                                     | Rated Current 6A<br>Max. Current 10A    |
| AA2010 |                                                                                                                                      |                             | 200 V                | 500 V                 | 500 V                           |                                                                                                                                                                | Rated Current 2A<br>Max. Current 10A    |
| AA2512 |                                                                                                                                      |                             | 200 V                | 500 V                 | 500 V                           |                                                                                                                                                                | Rated Current 2A<br>Max. Current 10A    |

## FOOTPRINT AND SOLDERING PROFILES

Recommended footprint and soldering profiles. Please refer to data sheet “Chip resistors mounting”.

## PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

| PACKING STYLE            | REEL<br>DIMENSION | AA0201 | AA0402 | AA0603 | AA0805 | AA1206 | AA1210 | AA1218 | AA2010 | AA2512 |
|--------------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Paper/PE taping reel (R) | 7" (178 mm)       | 10,000 | 10,000 | 5,000  | 5,000  | 5,000  | 5,000  | ---    | ---    | ---    |
|                          | 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/PE/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:

AA0201=1/20W (0.05W)

AA0402=1/16 W (0.0625W)

AA0603=1/10 W (0.1W)

AA0805=1/8 W (0.125W)

AA1206=1/4 W (0.25W)

AA1210=1/2 W (0.5W)

AA1218=1 W

AA2010=3/4 W (0.75W)

AA2512=1 W

### RATED VOLTAGE

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

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

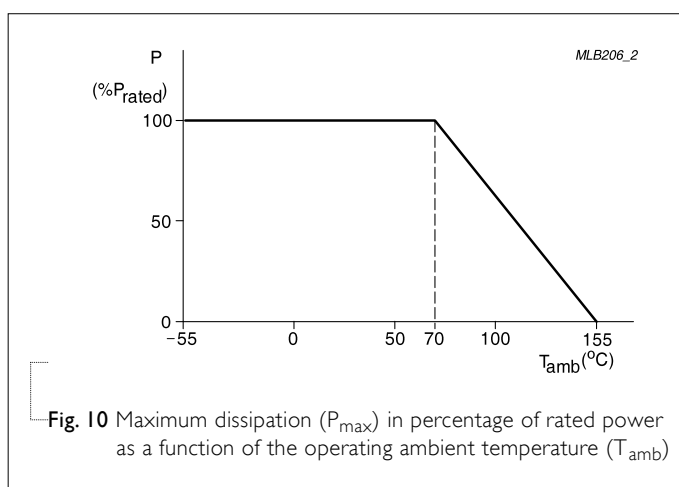
Or Maximum working voltage whichever is less

Where

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

P = Rated power (W)

R = Resistance value ( $\Omega$ )



**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                                                                                                                                                                                                                    | $\pm(1.0\%+0.05\Omega)$<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<br><br>Parts mounted on test-boards, without condensation on parts | $\pm(0.5\%+0.05\Omega)$ 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><br>Measurement at $24\pm 4$ hours after test conclusion.                                                                                                                                         | $\pm(3.0\%+0.05\Omega)$<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                                                                                                                                                         | $\pm(1.0\%+0.05\Omega)$<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                                                                                                                     | $\pm(1.0\%+0.05\Omega)$<br><50 m $\Omega$ for Jumper                                                                         |
| ESD                          | AEC-Q200 Test 17<br>AEC-Q200-002           | 1 pos. + 1 neg. 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<br>Coefficient of<br>Resistance (T.C.R.) | IEC 60115-1 4.8<br>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<br>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)<br><50 mΩ for Jumper              |
| FOS                                                  | ASTM-B-809-95                             | - Sulfur (saturated vapor) 1000 hours, 90±2 °C unpowered                                                                                                                                                                                                                                                                                                                        | ±(1.0%+0.05Ω)                                   |
|                                                      | ASTM-B-809-95*<br>*Modified               | - Sulfur 750 hours, 105 °C. unpowered                                                                                                                                                                                                                                                                                                                                           | ±(4.0%+0.05Ω)                                   |

**REVISION HISTORY**

| REVISION  | DATE          | CHANGE NOTIFICATION | DESCRIPTION                              |
|-----------|---------------|---------------------|------------------------------------------|
| Version 3 | Dec. 08, 2015 | -                   | - Update Dielectric Withstanding Voltage |
| Version 2 | Apr. 09, 2015 | -                   | - Modified FOS test procedure            |
| Version 1 | Jan. 27, 2015 | -                   | - Dimensions update                      |
| Version 0 | Feb. 27, 2014 | -                   | - First issue of this specification      |

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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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