

DATA SHEET

THICK FILM CHIP RESISTORS AUTOMOTIVE GRADE

AC series

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

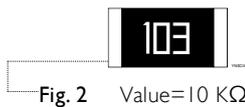
Sizes 0201/0402/0603/0805/1206/
1210/1218/2010/2512

RoHS compliant & Halogen free



MARKING**AC0201 / AC0402**

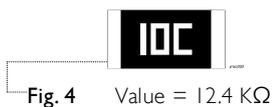
No marking

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

AC0603

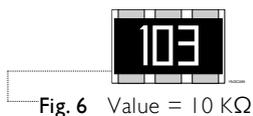
E-24 series: 3 digits, $\pm 1\%$ & $\pm 0.5\%$
 One short bar under marking letter



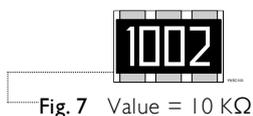
E-96 series: 3 digits, $\pm 1\%$ & $\pm 0.5\%$
 First two digits for E-96 marking rule and 3rd letter for number of zeros

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

AC1218

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



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

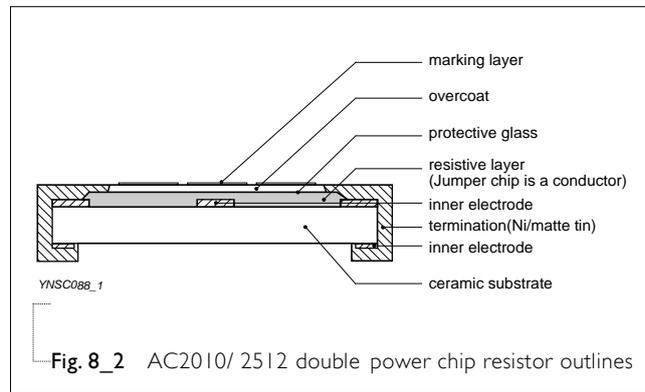
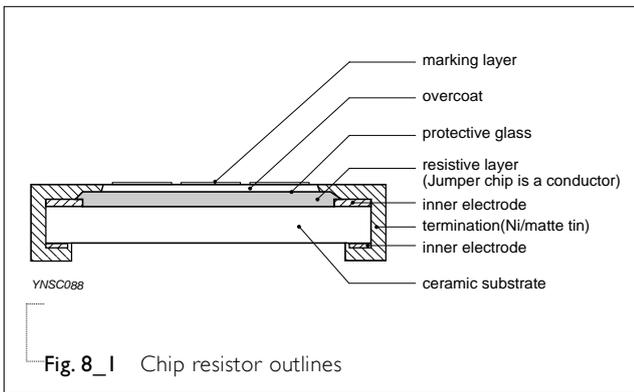
NOTE

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.

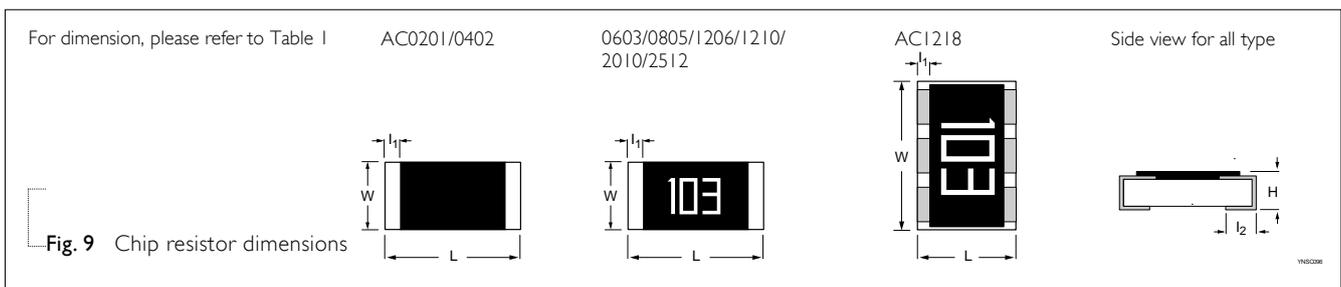
OUTLINES



DIMENSIONS

Table I For outlines, please refer to Fig. 9

TYPE	L (mm)	W (mm)	H (mm)	l ₁ (mm)	l ₂ (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)	1Ω ≤ R ≤ 10Ω	Rated Current
						1Ω ≤ R ≤ 10MΩ	-100/+350ppm°C	0.5A
						1% (E24/E96)	10Ω < R ≤ 10M	Maximum
						1Ω ≤ R ≤ 10MΩ	±200ppm°C	Current
AC0402	1/16 W	-55 °C to 155 °C	50V	100V	100V	0.5% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum
						1Ω ≤ R ≤ 10MΩ	±100ppm°C	Current
						Jumper<50mΩ	10MΩ < R ≤ 22MΩ	2A
							±200ppm°C	
AC0603	1/8W	-55 °C to 155 °C	75V	100V	100V	5% (E24)	1Ω ≤ R ≤ 10Ω	Rated Current
						1Ω ≤ R ≤ 10MΩ	±200 ppm°C	1A
						0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum
						1Ω ≤ R ≤ 10MΩ	±100 ppm°C	Current
AC0603	1/10 W	-55 °C to 155 °C	75V	150V	150V	5% (E24)	1Ω ≤ R ≤ 10Ω	Rated Current
						1Ω ≤ R ≤ 22MΩ	±200ppm°C	1A
						0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum
						1Ω ≤ R ≤ 10MΩ	±100ppm°C	Current
AC0603	1/5 W	-55 °C to 155 °C	75V	150V	150V	Jumper<50mΩ	10MΩ < R ≤ 22MΩ	2A
							±200ppm°C	
						5% (E24)	1Ω ≤ R ≤ 10Ω	
						1Ω ≤ R ≤ 10MΩ	±200 ppm°C	
AC0603	1/5 W	-55 °C to 155 °C	75V	150V	150V	0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	
						1Ω ≤ R ≤ 10MΩ	±100 ppm°C	

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 ≤ 10Ω	Rated Current
						1 Ω ≤ R ≤ 22 MΩ	±200ppm°C	2A
AC0805	1/8 W	-55 °C to 155 °C	150V	300V	300V	0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum Current
						1 Ω ≤ R ≤ 10MΩ	±100ppm°C	5A
AC0805	1/8 W	-55 °C to 155 °C	150V	300V	300V	Jumper < 50mΩ	10MΩ < R ≤ 22MΩ	
							±200ppm°C	
AC1206	1/4 W	-55 °C to 155 °C	150V	300V	300V	5% (E24)	1 Ω ≤ R ≤ 10Ω	Rated Current
						1 Ω ≤ R ≤ 10MΩ	±200 ppm°C	2A
AC1206	1/4 W	-55 °C to 155 °C	200V	400V	500V	0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum Current
						1 Ω ≤ R ≤ 10MΩ	±100ppm°C	10A
AC1206	1/4 W	-55 °C to 155 °C	200V	400V	500V	Jumper < 50mΩ	10MΩ < R ≤ 22MΩ	
							±200ppm°C	
AC1206	1/2 W	-55 °C to 155 °C	200V	400V	500V	5% (E24)	1 Ω ≤ R ≤ 10Ω	Rated Current
						1 Ω ≤ R ≤ 10MΩ	±200 ppm°C	2A
AC1206	1/2 W	-55 °C to 155 °C	200V	400V	500V	0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum Current
						1 Ω ≤ R ≤ 10MΩ	±100 ppm°C	10A
AC1206	1/2 W	-55 °C to 155 °C	200V	400V	500V	Jumper < 50mΩ	10MΩ < R ≤ 22MΩ	
							±200ppm°C	
AC1210	1 W	-55 °C to 155 °C	200V	500V	500V	5% (E24)	1 Ω ≤ R ≤ 10Ω	Rated Current
						1 Ω ≤ R ≤ 10MΩ	±200 ppm°C	2A
AC1210	1 W	-55 °C to 155 °C	200V	500V	500V	0.5%, 1% (E24/E96)	10Ω < R ≤ 10MΩ	Maximum Current
						1 Ω ≤ R ≤ 10MΩ	±100 ppm°C	10A
AC1210	1 W	-55 °C to 155 °C	200V	500V	500V	Jumper < 50mΩ	10MΩ < R ≤ 22MΩ	
							±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)	1 Ω ≤ R ≤ 10 Ω	Rated Current
						1 Ω ≤ R ≤ 1M Ω	±200ppm°C	6A
						0.5%, 1% (E24/E96)	10 Ω < R ≤ 1M Ω	Maximum Current
						1 Ω ≤ R ≤ 1M Ω	±100ppm°C	Current
						Jumper < 50m Ω		10A
	1.5W	-55 °C to 155 °C	200V	500V	500V	5% (E24)	1 Ω ≤ R ≤ 10 Ω	Rated Current
						1 Ω ≤ R ≤ 1M Ω	±200 ppm°C	2A
						0.5%, 1% (E24/E96)	10 Ω < R ≤ 1M Ω	Maximum Current
						1 Ω ≤ R ≤ 1M Ω	±100 ppm°C	Current
						Jumper < 50m Ω	10M Ω < R ≤ 22M Ω	10A
AC2010	3/4 W	-55 °C to 155 °C	200V	500V	500V	5% (E24)	1 Ω ≤ R ≤ 10 Ω	Rated Current
						1 Ω ≤ R ≤ 22M Ω	±200ppm°C	2A
						0.5%, 1% (E24/E96)	10 Ω < R ≤ 10M Ω	Maximum Current
						1 Ω ≤ R ≤ 10M Ω	±100ppm°C	Current
						Jumper < 50m Ω	10M Ω < R ≤ 22M Ω	10A
							±200ppm°C	
	1.25W	-55 °C to 155 °C	200V	500V	500V	5% (E24)	1 Ω ≤ R ≤ 10 Ω	Rated Current
						1 Ω ≤ R ≤ 10M Ω	±200 ppm°C	2A
						0.5%, 1% (E24/E96)	10 Ω < R ≤ 10M Ω	Maximum Current
						1 Ω ≤ R ≤ 10M Ω	±100 ppm°C	Current
						Jumper < 50m Ω	10M Ω < R ≤ 22M Ω	10A
AC2512	1 W	-55 °C to 155 °C	200V	500V	500V	5% (E24)	1 Ω ≤ R ≤ 10 Ω	Rated Current
						1 Ω ≤ R ≤ 22M Ω	±200ppm°C	2A
						0.5%, 1% (E24/E96)	10 Ω < R ≤ 10M Ω	Maximum Current
						1 Ω ≤ R ≤ 10M Ω	±100ppm°C	Current
						Jumper < 50m Ω	10M Ω < R ≤ 22M Ω	10A
							±200ppm°C	
	2 W	-55 °C to 155 °C	200V	500V	500V	5% (E24)	1 Ω ≤ R ≤ 10 Ω	Rated Current
						1 Ω ≤ R ≤ 10M Ω	±200 ppm°C	2A
						0.5%, 1% (E24/E96)	10 Ω < R ≤ 10M Ω	Maximum Current
						1 Ω ≤ R ≤ 10M Ω	±100 ppm°C	Current

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)

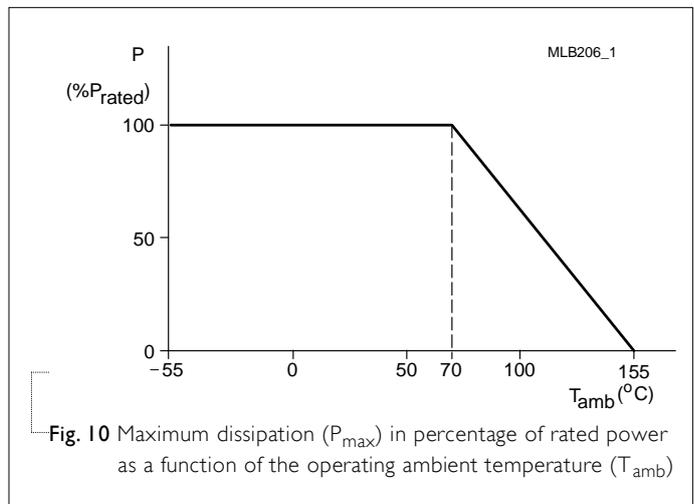


Fig. 10 Maximum dissipation (P_{max}) in percentage of rated power as a function of the operating ambient temperature (T_{amb})

TESTS AND REQUIREMENTS

Table 4 Test condition, procedure and requirements

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

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
Solderability - Wetting	AEC-Q200 Test 18 J-STD-002	Electrical Test not required Magnification 50X SMD conditions: (a) Method B, aging 4 hours at 155 °C dry heat, dipping at 235±3 °C for 5±0.5 seconds. (b) Method B, steam aging 8 hours, dipping at 215±3 °C for 5±0.5 seconds. (c) Method D, steam aging 8 hours, dipping at 260±3 °C for 30±0.5 seconds.	Well tinned (≥95% covered) No visible damage
Board Flex	AEC-Q200 Test 21 AEC-Q200-005	Chips mounted on a 90mm glass epoxy resin PCB (FR4) Bending for 0201/0402: 5 mm 0603/0805: 3 mm 1206 and above: 2 mm Holding time: minimum 60 seconds	±(1.0%+0.05Ω) <50 mΩ for Jumper
Temperature Coefficient of Resistance (T.C.R.)	MIL-STD-202 Method 304	At +25/-55 °C and +25/+125 °C Formula: $T.C.R = \frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$ Where t ₁ = +25 °C or specified room temperature t ₂ = -55 °C or +125 °C test temperature R ₁ = resistance at reference temperature in ohms R ₂ = 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 ±(2.0%+0.05Ω) for J tol <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 8	Mar. 19, 2021	-	- Upgrade the working voltage of 0402 double power to 75V
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 - Extend resistance range - Add in AC0201 - Update FOS test and requirements
Version 3	Feb 13, 2014	-	- Feature description updated - add $\pm 0.5\%$ - delete 10" taping reel
Version 2	Feb. 10, 2012	-	- Jumper criteria added - AC1218 marking and outline figure updated
Version 1	Feb. 01, 2011	-	- Case size 1210, 1218, 2010, 2512 extended - Test method and procedure updated - Packing style of 7D added
Version 0	Nov. 10, 2010	-	- First issue of this specification

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