

DATA SHEET

THICK FILM CHIP RESISTORS **AUTOMOTIVE GRADE**

AC series

±5%, ±1%, ±0.5% Sizes 0201/0402/0603/0805/1206/ 1210/1218/2010/2512

RoHS compliant & Halogen free



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Product specification – January 04, 2023 V.10





AC SERIES

0201 to 2512

SCOPE

This specification describes AC0201 to AC2512 chip resistors with lead-free terminations made by thick film process.

APPLICATIONS

- All general purpose applications
- Car electronics, industrial application

FEATURES

- AEC-Q200 qualified
- Moisture sensitivity level: MSL I
- AC series soldering is compliant with J-STD-020D
- Halogen free epoxy
- RoHS compliant
 - Products with lead-free terminations meet RoHS requirements
 - Pb-glass contained in electrodes, resistor element and glass are exempted by RoHS
- Reduce environmentally hazardous waste
- High component and equipment reliability
- The resistors are 100% performed by automatic optical inspection prior to taping.

ORDERING INFORMATION - GLOBAL PART NUMBER

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

GLOBAL PART NUMBER

AC \underline{XXXX} \underline{X} \underline{X} \underline{X} \underline{XX} \underline{XXXX} \underline{L}

(1) (2) (3) (4) (5) (6

(6) (7)

(I) SIZE

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

(2) TOLERANCE

 $D = \pm 0.5\%$

 $J = \pm 5\%$ (for Jumper ordering, use code of J)

 $F = \pm 1\%$

(3) PACKAGING TYPE

R = Paper taping reel

K = Embossed taping reel

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Base on spec

(5) TAPING REEL

07 = 7 inch dia. Reel & Standard power

10 = 10 inch dia. Reel

13 = 13 inch dia. Reel

7W = 7 inch dia. Reel & 2 x standard power 3W = 13 inch dia. Reel & 2 x standard power

(6) RESISTANCE VALUE

I Ω to 22 M Ω

There are $2\sim4$ 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. I K2, not I K20.

Detailed coding rules of resistance are shown in the table of "Resistance rule of global part number".

(7) DEFAULT CODE

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

Resistance rule number	of global part
Resistance coding rule	Example
XRXX (I to 9.76Ω)	IR = IΩ IR5 = I.5Ω 9R76 = 9.76Ω
XXRX (10 to 97.6Ω)	$10R = 10\Omega$ $97R6 = 97.6\Omega$
XXXR (100 to 976Ω)	$100R = 100\Omega$ $976R = 976\Omega$
XKXX (Ι to 9.76 Κ Ω)	$1K = 1,000\Omega$ $9K76 = 9760\Omega$
XMXX (1 to 9.76 M Ω)	$IM = 1,000,000\Omega$ $9M76 = 9,760,000\Omega$
XXMX (10 M Ω)	10Μ = 10,000,000Ω

ORDERING EXAMPLE

The ordering code for an AC0402 chip resistor, value $100~\text{K}\Omega$ with $\pm 1\%$ tolerance, supplied in 7-inch tape reel is: AC0402FR-07100KL.

NOTE

- 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.
- 3. AC series with $\pm 0.5\%$ tolerance is also available. For further information, please contact sales.





Chip Resistor Surface Mount | AC | SERIES | 0201 to 2512

MARKING

AC0201 / AC0402



No marking

Fig. I

AC0603 / AC0805 / AC1206 / AC1210 / AC2010 / AC2512



E-24 series: 3 digits, ±5%

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

AC0603

Fig. 4

AC1218



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

Fig. 3 Value = 24 **C**



Value = $12.4 \text{ K}\Omega$

E-96 series: 3 digits, ±1% & ±0.5%

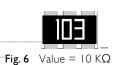
First two digits for E-96 marking rule and 3rd letter for number of zeros

AC0805 / AC1206 / AC1210 / AC2010 / AC2512



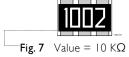
Both E-24 and E-96 series: 4 digits, ±1% & ±0.5%

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



E-24 series: 3 digits, ±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

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



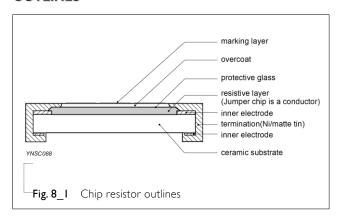
CONSTRUCTION

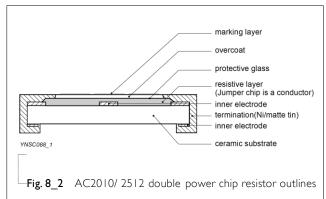
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The resistors are constructed on top of an automotive grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive glaze. The resistive glaze is covered by a protective glass.

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

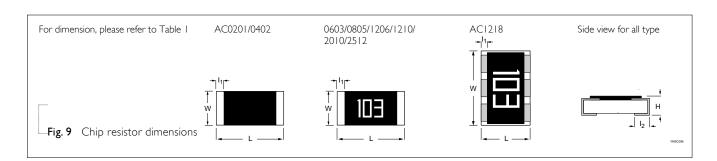




DIMENSIONS

Table I For outlines, please refer to Fig. 9

TYPE	L (mm)	W (mm)	H (mm)	I₁ (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	0.45 ±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	0.55 ±0.20
AC2512	6.35 ±0.10	3.10 ±0.15	0.55 ±0.10	0.60 ±0.20	0.60 ±0.20





ELECTRICAL CHARACTERISTICS

Table 2

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		CHARACTERISTICS								
TYPE	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload V Voltage	Dielectric Vithstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria		
						5% (E24)	$1\Omega \le R \le 10\Omega$	Rated Current		
						$1\Omega \le R \le 10M\Omega$	-100/+350ppm° C	0.5A		
						1% (E24/E96)	$10\Omega < R \le 10M$	Maximum		
AC0201	1/20 W	-55° C to 155° C	25V	50V	50V	$1\Omega \le R \le 10M\Omega$	±200ppm°C	Current		
						0.5% (E24/E96)		1.0A		
						$10\Omega \le R \le 1M\Omega$				
						Jumper $\!<$ 50m Ω				
						5% (E24)	$1\Omega \le R \le 10\Omega$	Rated Current		
		6W -55° C to 155° C		100V	/ 100V	$1\Omega \le R \le 22M\Omega$	±200ppm°C	IA		
	1/1/ \ \ /		F0\/			0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum		
	1/16 VV		50V			$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current		
						Jumper<50mΩ	$10M\Omega < R \le 22M\Omega$	2A		
AC0402							±200ppm°C			
•	1/0/4/	-55° C to 155° C	75V	/ I00V	100V 100V	5% (E24)	$ \Omega \le R < 0\Omega $			
						$1\Omega \le R \le 10M\Omega$	±200 ppm°C			
	1/000					0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$			
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C			
			_			5% (E24)	$1\Omega \le R < 10\Omega$	Rated Current		
						$1\Omega \le R \le 22M\Omega$	±200ppm°C	IA		
						0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$	Maximum		
	1/10 W	-55 ° C to 155 ° C	75V	150V	150V	$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current		
						Jumper<50mΩ	$10M\Omega < R \le 22M\Omega$	2A		
AC0603							±200ppm°C			
-			_			5% (E24)	IΩ≤R< I0Ω			
	1/5 W	I/5 W -55 ° C to I55 ° C	75V	150V	150V	$1\Omega \le R \le 10M\Omega$	±200 ppm°C			
						0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$			
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C			





		CHARACTERISTICS							
TYPE	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload W Voltage	Dielectric ithstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria	
						5% (E24)	$1\Omega \le R < 10\Omega$	Rated Current	
						$I\Omega \le R \le 22 M\Omega$	±200ppm°C	2A	
	1/0 \	55° C to 155° C	150V	300V	300V	0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$	Maximum	
	1/0 VV	55 C to 155 C	1300	3007	3007	$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current	
						Jumper $<$ 50m Ω	$10M\Omega < R \le 22M\Omega$	5A	
AC0805							±200ppm°C		
			_			5% (E24)	$1\Omega \le R < 10\Omega$		
	1/4\4/		150/	2001/	2001/	$1\Omega \le R \le 10M\Omega$	±200 ppm°C		
	1/4 VV -	55 ° C to 155 ° C	150V	300V	300V	0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$		
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C		
					500V	5% (E24)	$1\Omega \le R < 10\Omega$	Rated Current	
		55° C to 155° C	200V	400V		$1\Omega \le R \le 22M\Omega$	±200ppm°C	2A	
						0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$	Maximum	
	1/4 W -					$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current	
						Jumper<50mΩ	$10M\Omega < R \le 22M\Omega$	10A	
AC1206							±200ppm°C		
		55° C to 155° C	200V	400V	500V	5% (E24)	IΩ≤R< I0Ω		
						$1\Omega \le R \le 10M\Omega$	±200 ppm°C		
	1/2 W -					0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$		
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C		
	-					5% (E24)	$ \Omega \le R < 0\Omega $	Rated Current	
						$I\Omega \le R \le 22M\Omega$	±200ppm°C	2A	
						0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$	Maximum	
	1/2 W -	55° C to 155° C	200V	500V	500V	$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current	
						Jumper $\!<$ 50m Ω	$10M\Omega < R \le 22M\Omega$	10A	
AC1210							±200ppm°C		
	_					5% (E24)	IΩ≤R< I0Ω		
		I W -55° C to 155° C	200V		00V 500V	$1\Omega \le R \le 10M\Omega$	±200 ppm°C		
	I W -			500V		0.5%, 1% (E24/E96)	$10\Omega \le R \le 10M\Omega$		
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C		

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CHARACTERISTICS Resistance Temperature Jumper Max. Operating Max. Dielectric TYPE **POWER** Criteria Coefficient Range Temperature Working Overload Withstanding Range Voltage Voltage Voltage $I\Omega \le R < I0\Omega$ Rated Current 5% (E24) $|\Omega \le R \le |M\Omega|$ 6A ±200ppm°C IW -55° C to 155° C 200V 500V 500V 0.5%, 1% (E24/E96) $10\Omega \le R \le 1M\Omega$ Maximum $1\Omega \le R \le IM\Omega$ ±100ppm°C Current Jumper<50m Ω 10A AC1218 5% (E24) $1\Omega \le R < 10\Omega$ $1\Omega \le R \le IM\Omega$ ±200 ppm°C 1.5W -55° C to 155° C 200V 500V 0.5%, 1% (E24/E96) $10\Omega \le R \le 1M\Omega$ $|\Omega \le R \le |M\Omega|$ ±100 ppm°C Rated Current 5% (E24) $1\Omega \le R < 10\Omega$ $1\Omega \le R \le 22M\Omega$ ±200ppm°C 0.5%, 1% (E24/E96) $10\Omega \le R \le 10M\Omega$ Maximum 3/4 W -55 ° C to 155 ° C 200V 500V 500V $1\Omega \le R \le 10M\Omega$ ±100ppm°C Current Jumper<50mΩ $10M\Omega < R \le 22M\Omega$ 10A AC2010 ±200ppm°C 5% (E24) $1\Omega \le R < 10\Omega$ $1\Omega \le R \le 10M\Omega$ ±200 ppm°C 1.25W -55° C to 155° C 200V 500V 500V 0.5%, 1% (E24/E96) $10\Omega \le R \le 10M\Omega$ $1\Omega \le R \le 10M\Omega$ ±100 ppm°C $1\Omega \le R < 10\Omega$ Rated Current 5% (E24) $1\Omega \le R \le 22M\Omega$ ±200ppm°C 2A 0.5%, 1% (E24/E96) $10\Omega \le R \le 10M\Omega$ Maximum IW -55° C to 155° C 500V 200V 500V $1\Omega \le R \le 10M\Omega$ ±100ppm°C Current $10M\Omega < R \le 22M\Omega$ Jumper<50m Ω 10A AC2512 ±200ppm°C $1\Omega \le R < 10\Omega$ 5% (E24) $1\Omega \le R \le 10M\Omega$ ±200 ppm°C 2W -55° C to 155° C 200V 500V 0.5%, 1% (E24/E96) $10\Omega \le R \le 10M\Omega$ $1\Omega \le R \le 10M\Omega$ ±100 ppm°C

0201 to 2512

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
	13" (330 mm)								16,000	

NOTE

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1. 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)

ACI206=I/4W (0.25W); 1/2 W (0.5 W)

AC1210=1/2W (0.5W); IW

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:

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

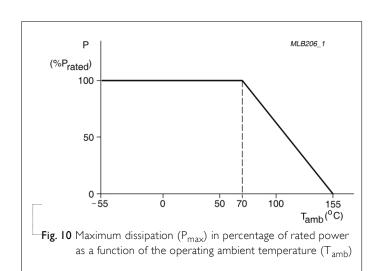
Or Maximum working voltage whichever is less

V = Continuous rated DC or AC (rms) working

voltage (V)

P = Rated power (W)

 $R = Resistance value (\Omega)$





Chip Resistor Surface Mount | AC | SERIES | 0201 to 2512

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 °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	MIL-STD-202 Method 106	Each temperature / humidity cycle is defined at 8 hours, 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±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±5 °C, 10±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	nermal Shock MIL-STD-202 Method 107 -55/+125 °C Number of cycles is 300. Devices moun Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air		$\pm (0.5\% \pm 0.05\Omega)$ for D/F tol $\pm (1.0\% \pm 0.05\Omega)$ 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: IKV 0805 and above: 2KV	$\pm (3.0\% + 0.05\Omega)$ <50 m Ω for Jumper	



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TEST	ST TEST METHOD PROCEDURE		REQUIREMENTS	
Solderability - Wetting	AEC-Q200 Test 18 J-STD-002	Electrical Test not required Magnification 50X SMD conditions:	Well tinned (≥95% covered) No visible damage	
		(a) Method B, aging 4 hours at 155 °C dry heat, dipping at 235±3 °C for 5±0.5 seconds.	140 VISIDIE Garriage	
		(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.		
Board Flex	AEC-Q200 Test 21	Chips mounted on a 100mm × 40mm glass	±(1.0%+0.05Ω)	
	AEC-Q200-005	epoxy resin PCB (FR4) Bending for 0201/0402: 5 mm 0603/0805: 3 mm 1206 and above: 2 mm	$<$ 50 m Ω for Jumper	
		Holding time: minimum 60 seconds		
Temperature Coefficient of	MIL-STD-202 Method 304	At +25/–55 °C and +25/+125 °C	Refer to table 2	
Resistance (T.C.R.)		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_I =resistance at reference temperature in ohms		
		R ₂ =resistance at test temperature in ohms		
Short Time	IEC60115-1 8.1	2.5 times of rated voltage or maximum	$\pm (1.0\% + 0.05\Omega)$ for D/F tol	
Overload		overload voltage whichever is less for 5 sec at room temperature	$\pm (2.0\% + 0.05\Omega)$ for J tol <50 m Ω for Jumper	
FOS	ASTM-B-809-95	Sulfur (saturated vapor) 500 hours, 60±2°C, unpowered	±(1.0%+0.05Ω)	



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REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 10	Jan. 04, 2023	-	- 10ohm TCR upgrade to 100ppm, for 0603~2512 normal power and 0402~2512 double power.
Version 9	Aug. 02, 2022	-	- 12 dimension updated, for size 1206, size 2010, size 2512.
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 packingExtend resistance rangeAdd in AC0201Update FOS test and requirements
Version 3	Feb 13, 2014	-	- Feature description updated - add ±0.5% - delete 10" taping reel
Version 2	Feb. 10, 2012	-	- Jumper criteria added - AC1218 marking and outline figure updated
Version I	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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AC0402FR-7W2K74L AC1206JR-1333RL AC0603FR-7W5R36L AC0805JR-1318KL AC0805FR-13191RL AC0402JR-7W1K2L AC0805JR-13330RL AC0603FR-1359KL AC0612FR-078R2L AC0603FR-7W75RL AC1206JR-7W1K5L AC0805FR-7W191RL AC0201FR-13200RL AC0805FR-7W464RL AC0402FR-7W4R75L AC0402FR-074M87L AC0805JR-131R5L AC0603FR-1343K2L AC2010JK-7W100RL AC0402FR-7W61K9L AC0805FR-7W63R4L AC0805FR-7W110RL AC1206FR-7W300RL AC0201FR-1349R9L AC0603FR-7W5K1L AC0201JR-132K2L AC0402FR-7W17K4L AC0805JR-131K5L AC1206DRE072K1L AC0805JR-136K8L AC0201FR-0742R2L AC0805FR-1334K8L AC0402JR-7W12KL AC0805FR-7W309RL AC0603FR-7W120RL AC0603FR-131K15L AC0805JR-1347KL AC0201FR-1337R4L AC0805FR-7W787RL AC0402FR-7W46K4L AC0805FR-133K01L AC0201FR-13121RL AC0603FR-134K32L AC1206JR-7W1K8L AC0402JR-7W18KL AC0805JR-1327KL AC0603FR-132K37L AC0603FR-1310K5L AC0805FR-133K92L AC1210JR-7W620RL AC0201FR-13137RL AC2010JK-7W47RL AC0805FR-7W42K2L AC0603FR-133R57L AC0402FR-7W36RL AC0612JR-072K2L AC0603FR-1313KL AC0402FR-7W1K87L AC0805FR-7W274RL AC0603JR-7W750RL AC0603JR-1339RL AC1020FK-07430RL AC0805JR-132M2L AC0201FR-1347K5L AC0201FR-133K3L AC2010FK-7W22RL AC0805FR-7W1K96L AC0805FR-131K1L AC1206FR-10620RL AC0603FR-7W12RL AC0805JR-132K7L AC0805FR-136K19L AC0402FR-1347R5L AC1020JK-0782RL AC0603FR-7W2K4L AC0603FR-071M62L AC0201FR-13470RL AC0603FR-074R87L AC0612FR-073RL AC0402FR-7W2K67L AC1206FR-073R83L AC0603FR-1347K5L AC0805JR-13220RL AC0603FR-1324K9L AC0603JR-1312RL AC1206JR-7W330RL AC0805FR-1382RL AC0603FR-7W3R32L AC1206FR-131K3L AC0603FR-1313K7L AC0805JR-13390RL AC0805JR-1333RL AC0201FR-1386R6L AC0201FR-13100RL AC1206FR-0734R8L AC1206FR-7W130RL AC0603FR-1328K7L AC0603FR-1312K1L AC0603FR-7W48K7L AC0603JR-1320RL