

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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SCOPE

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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 XXXX X X X XX XXXX L

(I) (2) (3) (4) (5) (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	10 = 10 inch dia. Reel
13 = 13 inch dia. Reel	7W = 7 inch dia. Reel & 2 x standard power
	$3W = 13$ inch dia. Reel & $2 \times$ 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	of global part
Resistance coding rule	Example
XRXX	$IR = I\Omega$
(I to 9.76Ω)	$IR5 = 1.5\Omega$
(1 (0 7.7022)	$9R76 = 9.76\Omega$
XXRX	$IOR = IO\Omega$
(10 to 97.6 Ω)	$97R6 = 97.6\Omega$
XXXR	$100R = 100\Omega$
(100 to 976 Ω)	$976R = 976\Omega$
XKXX	IK = 1,000Ω
(1 to 9.76 K Ω)	$9K76 = 9760\Omega$
XMXX	$1M = 1,000,000\Omega$
(1 to 9.76 M Ω)	$9M76 = 9,760,000\Omega$
XXMX (10 MΩ)	10Μ = 10,000,000Ω

ORDERING EXAMPLE

The ordering code for an AC0402 chip resistor, value $100~\text{K}\Omega$ with $\pm1\%$ 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.
- AC series with ±0.5% tolerance is also available. For further information, please contact sales.





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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



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%

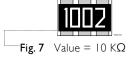
First three digits for significant figure and 4th digit for number of zeros



Fig. 6 Value = $10 \text{ K}\Omega$

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

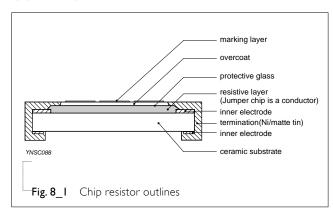
 $For further marking information, please \ refer \ to \ data \ sheet \ ``Chip \ resistors \ marking''. \ Marking \ of \ AC \ series \ is \ the \ same \ as \ RC \ series.$

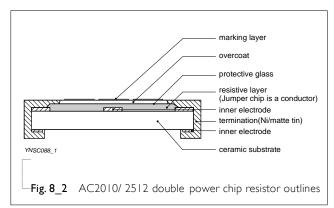
CONSTRUCTION

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

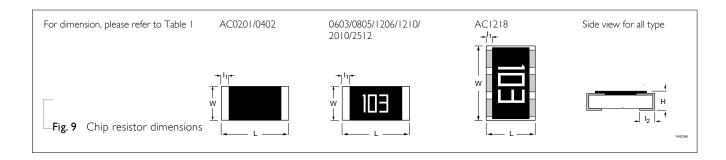




DIMENSIONS

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





Chip Resistor Surface Mount AC SERIES 0201 to 2512

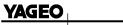
ELECTRICAL CHARACTERISTICS

Table 2

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			CHARACTERISTICS									
TYPE	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding 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				
AC0201		-55 °C to				1% (E24/E96)	$10\Omega < R \le 10M$	Maximum				
	1/20 W	-55 ℃ to	25V	50V	50V	$1\Omega \le R \le 10M\Omega$	±200ppm°C	Current				
		133 C				0.5% (E24/E96)		I.0A				
						$10\Omega \le R \le 1M\Omega$						
						Jumper $\!<$ 50m $\!\Omega$						
						5% (E24)	$1\Omega \le R \le 10\Omega$	Rated Current				
		-55 °C to W 155 °C	50V	100V	100V	$I\Omega \le R \le 22M\Omega$	±200ppm°C	IA				
	1/16 W					0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum				
	1/10 VV		201	1007		$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current				
						Jumper<50mΩ	$10M\Omega < R \le 22M\Omega$	2A				
AC0402							±200ppm°C					
		-55 °C to 75° 155 °C		75V 100V	100V 100V	5% (E24)	$1\Omega \le R \le 10\Omega$					
	1/8₩		75\/			$1\Omega \le R \le 10M\Omega$	±200 ppm°C					
	1/0 🗸 🗸		754			0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$					
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C					
						5% (E24)	$1\Omega \le R \le 10\Omega$	Rated Current				
						$1\Omega \le R \le 22M\Omega$	±200ppm°C	IA				
	1/10/14/	-55 °C to	75) /	150)	150) (0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum				
	1/10 W	155 °C	75V	150V	150V	$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current				
						Jumper $\!<$ 50m Ω	$10M\Omega < R \le 22M\Omega$	2A				
AC0603							±200ppm°C					
						5% (E24)	IΩ≤R≤I0Ω					
		-55 °C to		75V 150V		$1\Omega \le R \le 10M\Omega$	±200 ppm°C					
	1/5 W	155 °C	75V		150V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$					
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C					
						732 = 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	±100 ppi11 C					





Chip Resistor Surface Mount AC SERIES 0201 to 2512

CHARACTERISTICS					TERISTICS	TICS						
ГҮРЕ	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria				
						5% (E24)	$1\Omega \le R \le 10\Omega$	Rated Current				
						$1\Omega \le R \le 22 M\Omega$	±200ppm°C	2A				
	1/0 \ \ /	-55 °C to	150) /	2001	2001/	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum				
	1/8 W	155 °C	150V	300V	300V	$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current				
						Jumper $<$ 50m Ω	$10M\Omega < R \le 22M\Omega$	5A				
AC0805							±200ppm°C					
_						5% (E24)	$1\Omega \le R \le 10\Omega$					
	1/4 W	− 55 °C to	150V	300V	300V	$1\Omega \le R \le 10M\Omega$	±200 ppm°C					
	1/ 1 🔻	155 °C	150 V	300 V	300 v	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$					
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C					
	1/4 W	-55 °C to 1/4 W 155 °C	200V	400V	∕ 500V	5% (E24)	$1\Omega \le R \le 10\Omega$	Rated Current				
						$I\Omega \le R \le 22M\Omega$	±200ppm°C	2A				
						0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum				
						$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current				
						Jumper $\!<$ 50m $\!\Omega$	$10M\Omega < R \le 22M\Omega$	10A				
AC1206 _							±200ppm°C					
		–55 °C to 1/2 W 155 °C	200V	400V	500V	5% (E24)	$1\Omega \le R \le 10\Omega$					
						$1\Omega \le R \le 10M\Omega$	±200 ppm°C					
	1/2 W					0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$					
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current				
						$I\Omega \le R \le 22M\Omega$	±200ppm°C	2A				
		-55 °C to				0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum				
	1/2 W	155 °C	200V	500V	500V	$1\Omega \le R \le 10M\Omega$	±100ppm°C	Current				
						Jumper<50mΩ	$10M\Omega < R \le 22M\Omega$	10A				
AC1210							±200ppm°C					
_						5% (E24)	$ \Omega \le R \le 0\Omega $					
		-55 °C to	2221	500V		$1\Omega \le R \le 10M\Omega$	±200 ppm°C					
	ΙW	155 °C	200V		500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$					
						$1\Omega \le R \le 10M\Omega$	±100 ppm°C					

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Operating Max. Max. Dielectric Resistance Temperature Jumpor Temperature Working Overload Withstanding Range Coefficient Crite	
	YPE
5% (E24) $ \Omega \le R \le \Omega \Omega $ Rated Curr	
-55 °C to $I\Omega \le R \le IM\Omega$ ±200ppm°C	
I W -55 °C 200V 500V 500V 0.5%, I% (E24/E96) I 0Ω < R ≤ IMΩ Maxim	
IΩ≤R≤IMΩ ±100ppm°C Curr	
C1218 Jumper <50 m Ω	AC1218
5% (E24) $I\Omega \leq R \leq I0\Omega$	-
-55 °C to $\Omega \leq R \leq IM\Omega$ ±200 ppm°C	
1.5W 200V 500V 500V 500V $152 = 1.112 = 1.1200 \text{ pp.} 1.120 = 1.1120 = 1.$	
$I\Omega \le R \le IM\Omega$ ±100 ppm°C	
5% (E24) $ \Omega \le R \le 0\Omega $ Rated Curr	
$I\Omega \le R \le 22M\Omega$ ±200ppm°C	
-55 °C to 0.5% 1% (E24/E96) 10Ω < R ≤ 10MΩ Maxim	
3/4 W 200V 500V 500V 500V 1Ω ≤ R ≤ 10MΩ ±100ppm°C Curr	
Jumper $<$ 50m $Ω$ 10M $Ω$ < R \leq 22M $Ω$	
·	C2010
5% (E24) $1\Omega \le R \le 10\Omega$	-
-55 °C to $1\Omega \le R \le 10M\Omega$ ±200 ppm°C	
1.25W 200V 500V 500V 500V 155 °C 0.5%, 1% (E24/E96) 10Ω < R ≤ 10MΩ	
$I\Omega \le R \le I0M\Omega$ ±100 ppm°C	
5% (E24) $ \Omega \le R \le \Omega \cap \Omega $ Rated Curr	
$I\Omega \le R \le 22M\Omega$ ±200ppm°C	
-55 °C to 0.5% 1% (F24/F96) 10Ω < R ≤ 10MΩ Maxim	
1 W 200V 500V 500V $1\Omega \le R \le 10M\Omega$ $\pm 100ppm^{\circ}C$ Curr	
Jumper $<$ 50m Ω 10M Ω < R \leq 22M Ω	
	C2512
5% (E24) $1\Omega \le R \le 10\Omega$	-
-55 °C to $1\Omega \le R \le 10M\Omega$ ±200 ppm°C	
2 W 200V 500V 500V 500V 155 °C 0.5%, 1% (E24/E96) 10Ω < R ≤ 10MΩ	
$I\Omega \le R \le I0M\Omega$ ±100 ppm°C	

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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

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

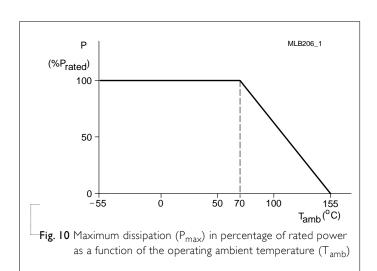
Where

V = Continuous rated DC or AC (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	·		$\pm (1.0\% + 0.05\Omega)$ 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	I,000 hours; 85 °C / 85% RH I 0% 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	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: IKV 0805 and above: 2KV	$\pm (3.0\% + 0.05\Omega)$ <50 m Ω for Jumper		



Chip Resistor Surface Mount AC SERIES 0201 to 2512

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	$\pm (1.0\% + 0.05\Omega)$ <50 m Ω for Jumper	
		Holding time: minimum 60 seconds		
Temperature Coefficient of Resistance (T.C.R.)	MIL-STD-202 Method 304	At +25/–55 °C and +25/+125 °C	Refer to table 2	
		Formula: $T.C.R = \frac{R_2 - R_1}{R_1(t_2 - t_1)} \times 10^6 \text{ (ppm/°C)}$ Where $t_1 = +25 \text{ °C or specified room temperature}$ $t_2 = -55 \text{ °C or } +125 \text{ °C test temperature}$ $R_1 = \text{resistance at reference temperature in ohms}$ $R_2 = \text{resistance at test temperature in ohms}$		
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	\pm (1.0%+0.05 Ω) for D/F tol \pm (2.0%+0.05 Ω) 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)	



REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 9	Aug. 03, 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 packing Extend resistance range Add in AC0201 Update 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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AC0603FR-0733KL AC0603FR-0710RL AC0603FR-070RL AC0603FR-071KL AC0603FR-071K5L AC0603FR-071K8L AC0603FR-071ML AC0603FR-0710KL AC0603FR-07100KL AC0603FR-07120RL AC0603FR-072K21L AC0603FR-0720KL AC0603FR-074K7L AC0603FR-074R75L AC0603FR-07470RL AC1206FR-07150RL AC1206FR-0760R4L AC1206FR-0751KL AC1206FR-07100KL AC2010JK-070RL AC0402FR-07100KL AC0402FR-07100RL AC0402FR-0710KL AC0402FR-07120RL AC0402FR-0712KL AC0402FR-07130RL AC0402FR-07150RL AC0402FR-0715KL AC0402FR-07180KL AC0402FR-0718KL AC0402FR-071K5L AC0402FR-071K8L AC0402FR-071KL AC0402FR-071ML AC0402FR-07200KL AC0402FR-0720KL AC0402FR-07220KL AC0402FR-07220RL AC0402FR-0722KL AC0402FR-0722RL AC0402FR-07240KL AC0402FR-0724KL AC0402FR-07270KL AC0402FR-07270RL AC0402FR-072K2L AC0402FR-072K7L AC0402FR-072KL AC0402FR-07300KL AC0402FR-0730KL AC0402FR-07330KL AC0402FR-0733RL AC0402FR-073K3L AC0402FR-073KL AC0402FR-0743RL AC0402FR-07470KL AC0402FR-07470RL AC0402FR-0747KL AC0402FR-0747RL AC0402FR-074K7L AC0402FR-0751KL AC0402FR-0751RL AC0402FR-07560RL AC0402FR-075K6L AC0402FR-07680RL AC0402FR-0768KL AC0402FR-0768RL AC0402FR-07750KL AC0402FR-0775RL AC0402FR-07820RL AC0402FR-0782RL AC0402FR-079K1L AC0603FR-07100RL AC0603FR-0711KL AC0603FR-07120KL AC0603FR-0712KL AC0603FR-07130KL AC0603FR-0713KL AC0603FR-07150KL AC0603FR-07150RL AC0603FR-0715KL AC0603FR-0715RL AC0603FR-0716KL AC0603FR-07180KL AC0603FR-07180RL AC0603FR-0718KL AC0603FR-07200KL AC0603FR-0720RL AC0603FR-07220KL AC0603FR-07220RL AC0603FR-0722KL AC0603FR-0722RL AC0603FR-07240KL AC0603FR-07240RL AC0603FR-0724KL AC0603FR-0724RL AC0603FR-07270KL AC0603FR-07270RL AC0603FR-0727KL AC0603FR-072K2L AC0603FR-07300KL