



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

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

APPLICATIONS

- All general purpose applications
- Car electronics, industrial application

FEATURES

- AEC-Q200 gualified
- 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

(2) (3) (4) (5) (7) (1)(6)

(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 x standard power

(6) RESISTANCE VALUE

I Ω to 22 M Ω

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. 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 number					
Resistance coding rule	Example				
XRXX	$ R = \Omega $				
(1 to 9.76Ω)	$ R5 = .5\Omega$				
(1 10 7.7052)	9R76 = 9.76Ω				
XXRX	$10R = 10\Omega$				
(10 to 97.6Ω)	$97R6 = 97.6\Omega$				
XXXR	$100R = 100\Omega$				
(100 to 976Ω)	$976R = 976\Omega$				
XKXX	K = ,000Ω				
(Ι to 9.76 K Ω)	9K76 = 9760Ω				
XMXX	$IM = I,000,000\Omega$				
(Ι to 9.76 MΩ)	9M76= 9,760,000Ω				
XXMX	1004 - 10,000,0000				
(10 MΩ)	$10M = 10,000,000\Omega$				

ORDERING EXAMPLE

The ordering code for an AC0402 chip resistor, value 100 K Ω with ±1% tolerance, supplied in 7-inch tape reel is: AC0402FR-07100KL.

NOTE

- I. 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 ±0.5% tolerance is also available. For further information, please contact sales.

MARKING

<u>AC0201</u>	/ AC0402	
Fig. 1		No marking
<u>AC0603</u>	/ AC0805 / AC1206 / A	C1210 / AC2010 / AC2512
Fig. 2	1113 Value=10 KΩ	E-24 series: 3 digits, $\pm 5\%$ First two digits for significant figure and 3rd digit for number of zeros
<u>AC0603</u>		
Fig. 3	2<u>μ</u>Ω Value = 24 Ω	E-24 series: 3 digits, ±1% & ±0.5% One short bar under marking letter
Fig. 4	Value = 12.4 KΩ	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	/ ACI206 / ACI2I0 / A	C2010 / AC2512
Fig. 5	1002 Value = 10 KΩ	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
<u>ACI218</u>		
Fig. 6	103 Value = 10 KΩ	E-24 series: 3 digits, $\pm 5\%$ First two digits for significant figure and 3rd digit for number of zeros
Fig. 7	1002 Value = 10 KΩ	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

ΝΟΤΕ

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

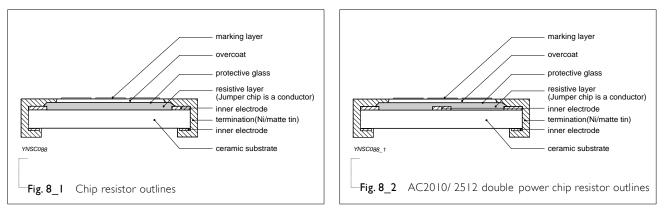




CONSTRUCTION

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.

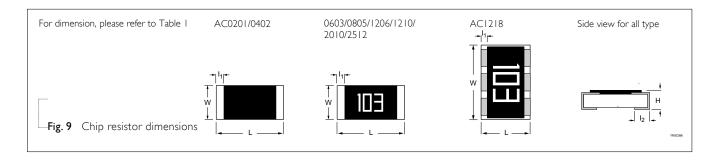
OUTLINES



DIMENSIONS

Table I For outlines, please refer to Fig. 9

TYPE	L (mm)	W (mm)	H (mm)	lı (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 **CHARACTERISTICS** Resistance Temperature Jumper Operating Max. Max. Dielectric TYPE POWER Coefficient Criteria Range Working Overload Withstanding Temperature Voltage Range Voltage Voltage $|\Omega \le R \le |0\Omega|$ Rated Current 5% (E24) 0.5A $|\Omega \leq R \leq |0M\Omega|$ -100/+350ppm°C Maximum $10\Omega < R \le 10M$ 1% (E24/E96) -55 °C to 1/20 W 25V 50V 50V AC0201 Current $|\Omega \leq R \leq |0M\Omega|$ ±200ppm°C 155 °C 1.0A 0.5% (E24/E96) $10\Omega \le R \le IM\Omega$ Jumper<50mΩ Rated Current $|\Omega \leq R \leq |0\Omega|$ 5% (E24) IA $|\Omega \leq R \leq 22M\Omega$ ±200ppm°C -55 °C to Maximum 0.5%, 1% (E24/E96) $10\Omega < R \le 10M\Omega$ 100V 1/16 W 50V 100V 155 °C Current $|\Omega \leq R \leq |0M\Omega|$ ±100ppm°C 2A Jumper<50m Ω $10M\Omega < R \le 22M\Omega$ AC0402 ±200ppm°C 5% (E24) $|\Omega \leq R \leq |0\Omega|$ -55 °C to $|\Omega \leq R \leq |0M\Omega|$ ±200 ppm°C 100V 1/8W 75V 100V 155 °C $10\Omega < R \le 10M\Omega$ 0.5%, 1% (E24/E96) $|\Omega \leq R \leq |0M\Omega|$ ±100 ppm°C Rated Current $|\Omega \leq R \leq |0\Omega|$ 5% (E24) ΙA $|\Omega \leq R \leq 22M\Omega$ ±200ppm°C Maximum -55 °C to 0.5%, 1% (E24/E96) $10\Omega < R \le 10M\Omega$ 1/10 W 75V 150V 150V Current 155 °C $|\Omega \leq R \leq |0M\Omega|$ ±100ppm°C 2A Jumper<50m Ω $10M\Omega < R \le 22M\Omega$ AC0603 ±200ppm°C 5% (E24) $|\Omega \leq R \leq |0\Omega|$ -55 °C to $|\Omega \le R \le |0M\Omega|$ ±200 ppm°C 1/5 W 75V 150V 150V 155 °C 0.5%, 1% (E24/E96) $10\Omega < R \le 10M\Omega$ $|\Omega \leq R \leq |0M\Omega|$ ±100 ppm°C

CHARACTERISTICS																													
TYPE	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria																					
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current																					
						$ \Omega \le R \le 22 M\Omega$	±200ppm°C	2A																					
		-55 °C to		2001	2001/	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum																					
	1/8 W	155 ℃	150V	300V	300∨	$ \Omega \le R \le 10M\Omega$	±100ppm°C	Current																					
						Jumper < 50m Ω	$10M\Omega < R \le 22M\Omega$	5A																					
AC0805							±200ppm°C																						
						5% (E24)	$ \Omega \le R \le 0\Omega $																						
	1/4 W	- 55 °C to	150V	300V	300V	$ \Omega \leq R \leq 10M\Omega$	±200 ppm°C																						
	1/+ ••	155 °C	1500	2004	2004	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$																						
						$ \Omega \leq R \leq 0M\Omega $	±100 ppm°C																						
	I/4 ₩	-55 ℃ to 1/4 W 155 ℃				5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current																					
			200\/	200∨ 400∨	/ 500V	$ \Omega \le R \le 22M\Omega$	±200ppm°C	2A																					
						0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum																					
			200 v			$ \Omega \le R \le 10M\Omega$	±100ppm°C	Current																					
						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A																					
AC1206																													
		–55 °C to 1/2 W 155 °C 200\ 155 °C		/ 400∨	∕ 500∨	5% (E24)	$ \Omega \le R \le 0\Omega $																						
			2001			$ \Omega \le R \le 10M\Omega$	±200 ppm°C																						
	1/2 VV		2000			0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$																						
						$ \Omega \le R \le 0M\Omega $	±100 ppm°C																						
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current																					
						$ \Omega \le R \le 22M\Omega$	±200ppm°C	2A																					
		-55 °C to	2001/			0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum																					
	1/2 W	155 ℃	200V	500V	500∨	$ \Omega \le R \le 10M\Omega$	±100ppm°C	Current																					
						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A																					
AC1210							±200ppm°C																						
						5% (E24)	$ \Omega \le R \le 0\Omega $																						
	1 \ /	-55 °C to	2001			$ \Omega \leq R \leq 10M\Omega$	±200 ppm°C																						
	IW	155 °C	200V	500V	500∨	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$																						
						$ \Omega \le R \le 10M\Omega$	±100 ppm°C																						

CHARACTERISTICS													
TYPE	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria					
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current					
		-55 °C to				$ \Omega \leq R \leq M\Omega $	±200ppm°C	6A					
	IW	-55 °C	200V	500V	500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 1M\Omega$	Maximum					
		155 C				$ \Omega \leq R \leq M\Omega $	±100ppm°C	Current					
AC1218						Jumper<50m Ω		10A					
						5% (E24)	$ \Omega \le R \le 0\Omega $						
	1.5W	-55 °C to	200V	500V	500V	$ \Omega \leq R \leq M\Omega $	±200 ppm°C						
	V V C. I	155 ℃	2000	3000	200.4	0.5%, 1% (E24/E96)	$10\Omega < R \le IM\Omega$						
						$ \Omega \leq R \leq M\Omega $	±100 ppm°C						
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current					
	3/4 W	-55 ℃ to W 155 ℃				$ \Omega \le R \le 22M\Omega$	±200ppm°C	2A					
			2001	5001	500V 500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum					
			200V	5000		$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current					
						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A					
AC2010							±200ppm°C						
		-55 °C to 20 1.25₩ -55 °C to 20		200V 500V	00∨ 500∨	5% (E24)	$ \Omega \le R \le 0\Omega $						
						$ \Omega \leq R \leq 0M\Omega $	±200 ppm°C						
	1.25W		200V			0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$						
													$ \Omega \leq R \leq 0M\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					
	IW	155 ℃	200V	500V	500V	$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current					
						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A					
AC2512							±200ppm°C						
						5% (E24)	$ \Omega \le R \le 0\Omega $						
	214	-55 °C to	2001	F 0 0 1	F001	$ \Omega \leq R \leq 0M\Omega $	±200 ppm°C						
	2 W	155 ℃	200V	500V	500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$						
						$ \Omega \le R \le 0M\Omega $	±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); 1/2 W (0.5 W) AC1218=1W; 1.5W AC2010=3/4W (0.75W); 1.25W AC2512=1 W; 2W

RATED VOLTAGE

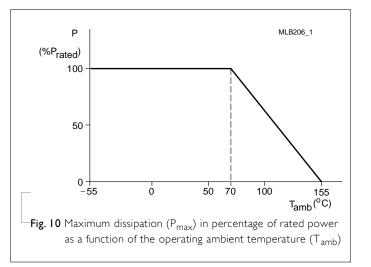
The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

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

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)



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TESTS AND REQUIREMENTS

Table 4 Test condition, procedure and requirements

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS	
High Temperature AEC-Q200 Test 3 1,0 Exposure MIL-STD-202 Method 108		1,000 hours at $T_A = 155$ °C, unpowered	\pm (1.0%+0.05 Ω) for D/F tol \pm (2.0%+0.05 Ω) 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	±(0.5%+0.05Ω) for D/F tol ±(2.0%+0.05Ω) for J tol <100 mΩ 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 Ω) for D/F tol \pm (3.0%+0.05 Ω) 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	±(1.0%+0.05Ω) for D/F tol ±(3.0%+0.05Ω) for J tol <100 mΩ 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	$\pm (0.5\% \pm 0.05\Omega)$ for D/F tol $\pm (1.0\% \pm 0.05\Omega)$ 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	±(0.5%+0.05Ω) for D/F tol ±(1.0%+0.05Ω) for J tol <50 mΩ for Jumper	
ESD	AEC-Q200 Test 17 AEC-Q200-002	Human Body Model, I pos. + I neg. discharges 0201: 500V 0402/0603: I KV 0805 and above: 2KV	±(3.0%+0.05Ω) <50 mΩ for Jumper	



TEST	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.	
		(b) Method B, steam aging 8 hours, dipping at 215±3 ℃ for 5±0.5 seconds.	
		(c) Method D, steam aging 8 hours, dipping at 260±3 ℃ for 30±0.5 seconds.	
Board Flex	AEC-Q200 Test 21	Chips mounted on a 90mm glass epoxy resin PCB (FR4)	±(1.0%+0.05Ω)
	AEC-Q200-005	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 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 °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	
Short Time Overload	IEC60115-14.13	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)

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 Chip Resistor Surface Mount
 AC
 SERIES
 0201 to 2512

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
			- Remove 7D packing
Version 4	May 25, 2015	-	- Extend resistance range
	,,		- Add in AC0201
			- Update FOS test and requirements
			- Feature description updated
Version 3	Feb 13, 2014	-	- add ±0.5%
			- delete 10" taping reel
			- Jumper criteria added
Version 2	Feb. 10, 2012	-	- ACI218 marking and outline figure updated
			- Case size 1210, 1218, 2010, 2512 extended
Version I	Feb. 01, 2011	-	- Test method and procedure updated
			- Packing style of 7D added
Version 0	Nov. 10, 2010	-	- First issue of this specification



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 CR-05FL7--19K6
 CR-05FL7--243R
 CR-05FL7--40K2
 CR-05FL7--698K
 CR-12FP4--324R
 CR-12JP4--680R

 M55342K06B1E78RS3
 M55342K06B6E19RWL
 M55342K06B6E81RS3
 M55342M05B200DRWB
 M55342M06B4K70MS3
 MC0603-511

 JTW
 742C083750JTR
 MCR01MZPF1202
 MCR01MZPF1601
 MCR01MZPF1800
 MCR01MZPF6201
 MCR01MZPF9102
 MCR01MZPJ113

 MCR01MZPJ121
 MCR01MZPJ125
 MCR01MZPJ751
 MCR03EZHJ103
 MCR03EZPFX2004
 MCR03EZPJ270
 MCR03EZPJ821

 MCR10EZPF1102
 MCR18EZPJ330
 RC0603F1473CS
 RC0603F150CS
 RC1005F1152CS
 RC1005F182CS
 RC1005F1372CS

 RC1005F183CS
 RC1005F1911CS
 RC1005F1912CS
 RC1005F203CS
 RC1005F2052CS
 RC1005F241CS
 RC1005F2431CS

 RC1005F3011CS
 RC1005F4321CS
 RC1005F4642CS
 RC1005F471CS
 RC1005F5621CS
 RC1005F5621CS
 RC1005F6041CS
 RC1005F5621CS