Datasheet

V1_0717_01_en

1. Scope:

This specification for approval relates to Thick Film Chip Resistors (Terminal Lead Free).

2. Type designation:

The type designation shall be in the following form:

All part numbers in the coding below start with "TC-" and end with "203"

Ex.

Type	Power Rating	Resistance tolerance	Nominal Resistance
RMC 0402	1/16W	F	75Ω

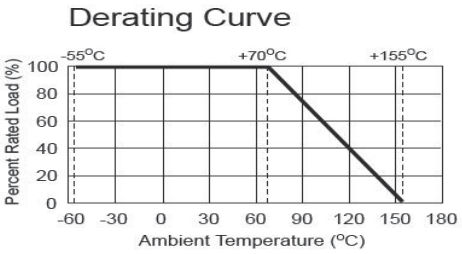
3. Ratings:

Type	RMC 0201	RMC 0402	RMC 0603	RMC 0805	RMC 1206
Power Rating	1/20W	1/16W	1/10W-S	1/8W-S	1/4W-S
Max. Working Voltage	25 V	50 V	75 V	150 V	200 V
Max. Overload Voltage	50 V	100 V	150 V	300 V	400 V
Dielectric Withstanding Voltage	-	100 V	300 V	500 V	500 V
Temperature Range	-55℃～ +155℃				
Ambient Temperature	70 ℃				

3.1 Power rating:

Resistors shall have a power rating based on continuous load operation at an ambient temperature of 70 ℃ . For temperature in excess of 70 ℃ , The load shall be derate as shown in figure 1.

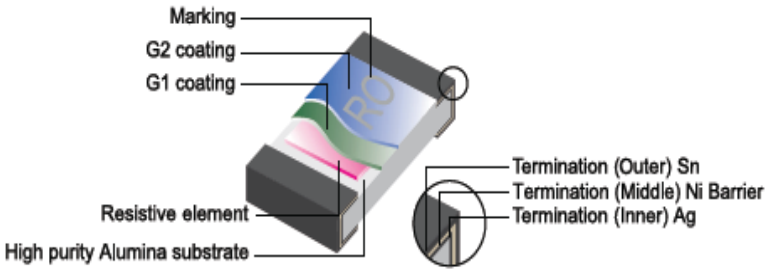
Figure 1



3.2 Nominal Resistance

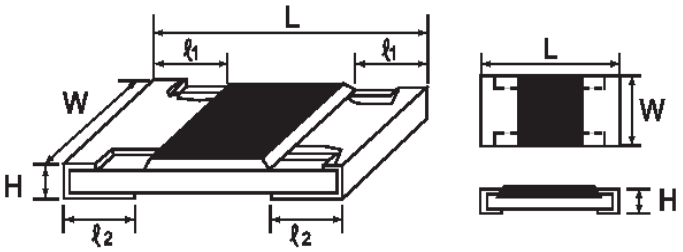
Effective figures of nominal resistance shall be in accordance with E-24 and E-96 series for 1 % and E-24 series for 2 % and 5 %

4. Construction :



Chip Kit Resistors

5. Power rating and dimensions:



Dimension :

Type	Dimension (mm)				
	L	W	H	ℓ1	ℓ2
RMC 0201	0.60 ± 0.03	0.30 ± 0.03	0.23 ± 0.03	0.10 ± 0.05	0.15 ± 0.05
RMC 0402	1.00 ± 0.10	0.50 ± 0.05	0.35 ± 0.05	0.20 ± 0.10	0.25 ± 0.10
RMC 0603	1.60 ± 0.10	0.80 + 0.15 - 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20
RMC 0805	2.00 ± 0.15	1.25 + 0.15 - 0.10	0.55 ± 0.10	0.40 ± 0.20	0.40 ± 0.20
RMC 1206	3.10 ± 0.15	1.55 + 0.15 - 0.10	0.55 ± 0.10	0.45 ± 0.20	0.45 ± 0.20

Power Rating :

Type	Power Rating at 70 ℃	Tolerance	Resistance Range	Standard Series
RMC 0201	1/20W	± 1	10Ω ~ 1MΩ	E-96
RMC 0402	1/16W	± 1	10Ω ~ 1MΩ	E-96
RMC 0603	1/10W-S	± 1	10Ω ~ 1MΩ	E-96
RMC 0805	1/8W-S	± 1	10Ω ~ 1MΩ	E-96
RMC 1206	1/4W-S	± 1	10Ω ~ 1MΩ	E-96

For E - 96 Series (see page 10-13 for value detail)

±1% E96	1,00	1,02	1,05	1,07	1,10	1,13	1,15	1,18	1,21	1,24	1,27	1,30	1,33	1,37	1,40	1,43	1,47	1,50	1,54	1,58	1,62	1,65	1,69	1,74
	1,78	1,82	1,87	1,91	1,96	2,00	2,05	2,10	2,15	2,21	2,26	2,32	2,37	2,43	2,49	2,55	2,61	2,67	2,74	2,80	2,87	2,94	3,01	3,09
	3,16	3,24	3,32	3,40	3,48	3,57	3,65	3,74	3,83	3,92	4,02	4,12	4,22	4,32	4,42	4,53	4,64	4,75	4,87	4,99	5,11	5,23	5,36	5,49
	5,62	5,76	5,90	6,04	6,19	6,34	6,49	6,65	6,81	6,98	7,15	7,32	7,50	7,68	7,87	8,06	8,25	8,45	8,66	8,87	9,09	9,31	9,53	9,76

Datasheet

V1_0717_01_en

Chip Kit Resistors

Mutiplier Code :

Code	A	B	C	D	E	F	G	H	X	Y	Z
Multiplier	10^0	10^1	10^2	10^3	10^4	10^5	10^6	10^7	10^{-1}	10^{-2}	10^{-3}

Coding

XX

Resistance Code

Formula

X

Multiplier Code

Example :

10.2KΩ = 102 X 10 Ω = 02C

(102 → 02; 10 → C)

33.2Ω = 332 X 10^{-1} Ω = 51X

(332 → 51; 10^{-1} → X)

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
100	**01**	162	**21**	261	**41**	422	**61**	681	**81**
102	**02**	165	**22**	267	**42**	432	**62**	698	**82**
105	**03**	169	**23**	274	**43**	442	**63**	715	**83**
107	**04**	174	**24**	280	**44**	453	**64**	732	**84**
110	**05**	178	**25**	287	**45**	464	**65**	750	**85**
113	**06**	182	**26**	294	**46**	475	**66**	768	**86**
115	**07**	187	**27**	301	**47**	487	**67**	787	**87**
118	**08**	191	**28**	309	**48**	499	**68**	806	**88**
121	**09**	196	**29**	316	**49**	511	**69**	825	**89**
124	**10**	200	**30**	324	**50**	523	**70**	845	**90**
127	**11**	205	**31**	332	**51**	536	**71**	866	**91**
130	**12**	210	**32**	340	**52**	549	**72**	887	**92**
133	**13**	215	**33**	348	**53**	562	**73**	909	**93**
137	**14**	221	**34**	357	**54**	576	**74**	931	**94**
140	**15**	226	**35**	365	**55**	590	**75**	953	**95**
143	**16**	232	**36**	374	**56**	604	**76**	976	**96**
147	**17**	237	**37**	383	**57**	619	**77**		
150	**18**	243	**38**	392	**58**	634	**78**		
154	**19**	249	**39**	402	**59**	649	**79**		
158	**20**	255	**40**	412	**60**	665	**80**		

*Marking for 0603 E-96 series, the resistance value that no have multiplier code indicate marking follow this:
The first two digits are significant figures of resistance and the third one denoted number of zeros and under line the marking letters.

Ex. | | 122 | | 1.2KΩ

Chip Kit Resistors

6. Marking :

6.1 Resistors

A. For E-96 series [±1% (F) tolerance] in 0603 size 3 digit system (due to space restrictions) please refer to page 4 for coding formula

Ex. | | 02C | | 10.2KΩ

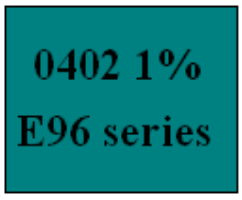
B. ±1% Tolerance 0805, 1206 : 4 Digits, the first three digits are singnificant figures of resistance and the fourth digit denoted number of zeros.Letter"R" is for decimal point.

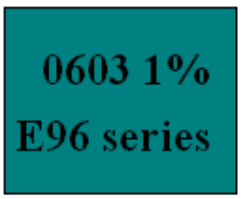
Ex. | | 2701 | | 2.7KΩ

C. Chip Resistors type 0201, 0402 No marking

6.2 Labels

Ex.





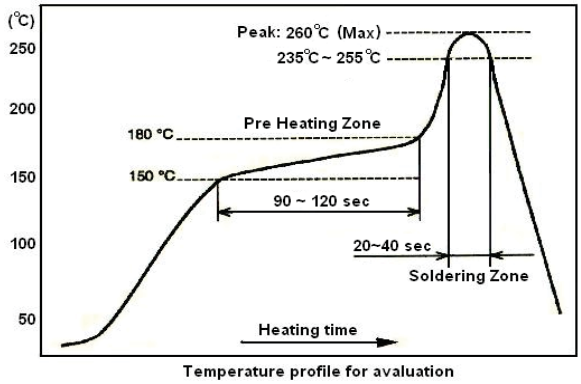
Chip Kit Resistors

7. Performance specification :

Characteristics	Limits	Test Methods (JIS C 5201-1)
*Insulation resistance	1,000 MΩ or more	Apply 500V DC between protective coating and termination for 1 min, then measure (Sub-clause 4.6)
*Dielectric withstanding voltage	No evidence of flashover mechanical damage, arcing or insulation break down	Apply 100V(0402) 300V(0603) & 500V (0805,1206,1210,2010, 2512) AC between protective coating and termination for 1 minute (Sub-clause 4.7)
Temperature coefficient	1Ω~10Ω : ± 400 PPM/℃ 10.1Ω~100Ω : ± 200 PPM/℃ >100Ω : ± 100 PPM/℃ (0201 : >100Ω ≤ ± 200 PPM/℃)	Natural resistance change per temp. degree centigrade. $\frac{R_2-R_1}{R_1(t_2-t_1)} \times 10^6$ (PPM/℃) R_1: Resistance value at room temperature (t1) R_2: Resistance value at room temp. plus 100 ℃ (t2) (Sub-clause 4.8)
Short time overload	Resistance change rate is ± (1.0% + 0.1Ω) Max.	Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds (Sub-clause 4.13)

Chip Kit Resistors

7. Performance specification :

Characteristics	Limits	Test Methods (JIS C 5201-1)
*Solderability	95 % coverage Min.	Test temperature of solder : 245 ± 3℃ Dipping them solder : 2-3 seconds (Sub-clause 4.17)
Soldering temp. reference	Electrical characteristics shall be satisfied. Without distinct deformation in appearance. (95 % coverage Min.)	Wave soldering condition: (2 cycles Max.) Pre-heat : 100 ~ 120 ℃, 30 ± 5 sec. Suggestion solder temp.: 235 ~ 255 ℃, 10 sec. (Max.) Peak temp.: 260 ℃ Reflow soldering condition: (2 cycles Max.) Pre-heat : 150 ~ 180 ℃, 90 ~ 120 sec. Suggestion solder temp.: 235 ~ 255 ℃, 20 ~ 40 sec. Peak temp.: 260 ℃  Temperature profile for avaluation Hand soldering condition: The soldering iron tip temperature should be less than 300℃and maximum contract time should be 5 sec.

Chip Kit Resistors

7. Performance specification :

Characteristics	Limits	Test Methods (JIS C 5201-1)
Soldering Heat	Resistance change rate is: ±(1%+0.05Ω) Max.	Dip the resistor into a solder bath having a temperature of 260°C±3°C and hold it for 10±1 seconds. (Sub-clause 4.18)
Temperature cycling	Resistance change rate is ± (0.5% + 0.05Ω) Max.	Resistance change after continuous 5 cycles for duty cycle specified below :

Step	Temperature	Time
1	-55℃ ± 3℃	30 mins
2	Room temp.	10～15 mins
3	+155℃ ± 2℃	30 mins
4	Room temp.	10～15 mins

(Sub-clause 4.19)

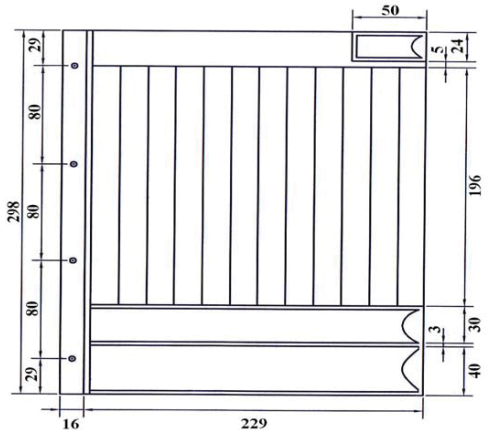
Load life in humidity	Resistance change rate is ± (1.0% + 0.1Ω) Max.	Resistance change after 1,000 hours (1.5 hours "on", 0.5 hour "off") at RCWV in a humidity chamber controlled at 40℃ ± 2℃ and 90 to 95 % relative humidity (Sub-clause 4.24.2.1)
Load Life	Resistance change rate is ± (1.0% + 0.1Ω) Max.	Permanent resistance change after 1,000 hours operating at RCWV, with duty cycle of (1.5 hours"on", 0.5 hour"off") at 70℃ ± 2℃ ambient (Sub-clause 4.25.1)
Terminal bending	Resistance change rate is ± (1.0% + 0.05Ω) Max.	Twist of Test Board : Y/X = 5/90 mm for 10 seconds (Sub-clause 4.33)

The resistors of 0Ω only can do the characteristic noted of *

Chip Kit Resistors

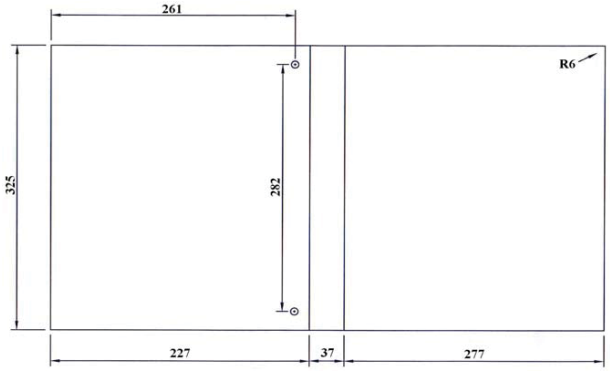
8. Kit resistors :

8.1 Insert for Chip Kit
Dimension (mm)

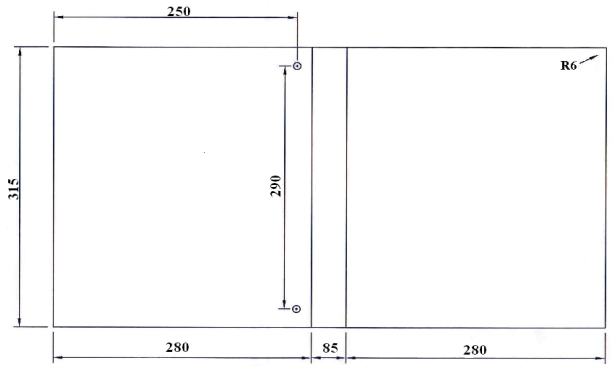


8.2 Album for Chip Kit
Dimension (mm)

*Green folder



*Black folder



Datasheet

V1_0717_01_en

Part Number System

Explanation of Part Number System

Chip Kit Resistors

All part numbers in the coding below start with "TC-" and end with "203"

1	2	3	4	5	6	7	8	9	10	11	12	13	14
0	4	0	2	W	G	F	E	0	9	6	K	I	T

Product Type:
Fill-in these 4 digits with the Chip resistor types as follows:
0201
0402
0603
0805
1206
2512

Wattage:
Fill-in these 2 digits with the codes as follows:

Normal size:
WM = 1/20W
WG = 1/16W
WA = 1/10W
W8 = 1/8W
W4 = 1/4W
W2 = 1/2W
1W = 1W

Small size:
SA = 1/10W-S
S8 = 1/8W-S
S4 = 1/4W-S
S2 = 1/2W-S

Tolerance:
F ~ ± 1%
J ~ ± 5%

Resistance Value:
Boxes no 8, 9, 10, 11
For SMD Kit resistor
-E6 series: E006
-E12 series: E012
-E24 series: E024
-E96 series: E096

Special Feature:
Fill-in these 3 digits with the chip resistor types as follows:
- KIT: Kit resistor (with resistor)
- K0N: Album only (no resistor)
- KIL: Index Only
- KIN: Insert Only
- KIC: Insert and Album, Cover Lid (no resistor)

Sample : Kit resistor 1/20W (0201) +/- 1% E-96 series (with resistor) → 0201WMFE096KIT
Kit resistor 1/16W (0402) +/- 1% E-96 series (with resistor) → 0402WGFE096KIT
Kit resistor 1/10W-S (0603) +/- 1% E-96 series (with resistor) → 0603SAFE096KIT
Kit resistor 1/8W-S (0805) +/- 1% E-96 series (with resistor) → 0805S8FE096KIT
Kit resistor 1/4W-S (1206) +/- 1% E-96 series (with resistor) → 1206S4FE096KIT

Chip Kit Resistors

Environment Related Substance

This product complies to EU RoHS directive, EU PAHs directive, EU PFOS directive and Halogen free.

Ozone layer depleting substances.

Ozone depleting substances are not used in our manufacturing process of this product.
This product is not manufactured using Chloro fluorocarbons (CFCs), Hydrochlorofluorocarbons (HCFCs), Hydrobromofluorocarbons (HBFCs) or other ozone depleting substances in any phase of the manufacturing process.

Storage Condition

The performance of these products, including the solderability, is guaranteed for a year from the date of arrival at your company, provided that they remain packed as they were when delivered and stored at a temperature of 25°C ± 5°C and a relative humidity of 60%RH ± 10%RH

Even within the above guarantee periods, do not store these products in the following conditions. Otherwise, their electrical performance and/or solderability may be deteriorated, and the packaging materials (e.g. taping materials) may be deformed or deteriorated, resulting in mounting failures.

1. In salty air or in air with a high concentration of corrosive gas, such as Cl_2, H_2S, NH_3, SO_2, or NO_2
2. In direct sunlight

Datasheet

V1_0717_01_en

Chip Kit Resistors

PRODUCT: RMC Kit (0201) +/-1%
E96 Series = 241 values (10R to 1M)
(With resistor 1 strip per value)
Total Qty: (0201) 48,200pcs.

NO.	Value	NO.	Value	NO.	Value	NO.	Value
1	10R	31	42.2R	61	178R	91	750R
2	10.5R	32	44.2R	62	187R	92	787R
3	11R	33	46.4R	63	196R	93	825R
4	11.5R	34	48.7R	64	205R	94	866R
5	12.1R	35	51.1R	65	215R	95	909R
6	12.7R	36	53.6R	66	226R	96	953R
7	13.3R	37	56.2R	67	237R	97	1K0
8	14R	38	59R	68	249R	98	1K05
9	14.7R	39	61.9R	69	261R	99	1K1
10	15.4R	40	64.9R	70	274R	100	1K15
11	16.2R	41	68.1R	71	287R	101	1K21
12	16.9R	42	71.5R	72	301R	102	1K27
13	17.8R	43	75R	73	316R	103	1K33
14	18.7R	44	78.7R	74	332R	104	1K4
15	19.6R	45	82.5R	75	348R	105	1K47
16	20.5R	46	86.6R	76	365R	106	1K54
17	21.5R	47	90.9R	77	383R	107	1K62
18	22.6R	48	95.3R	78	402R	108	1K69
19	23.7R	49	100R	79	422R	109	1K78
20	24.9R	50	105R	80	442R	110	1K87
21	26.1R	51	110R	81	464R	111	1K96
22	27.4R	52	115R	82	487R	112	2K05
23	28.7R	53	121R	83	511R	113	2K15
24	30.1R	54	127R	84	536R	114	2K26
25	31.6R	55	133R	85	562R	115	2K37
26	33.2R	56	140R	86	590R	116	2K49
27	34.8R	57	147R	87	619R	117	2K61
28	36.5R	58	154R	88	649R	118	2K74
29	38.3R	59	162R	89	681R	119	2K87
30	40.2R	60	169R	90	715R	120	3K01

Datasheet

V1_0717_01_en

Chip Kit Resistors

PRODUCT: RMC Kit (0201) +/-1%
E96 Series = 241 values (10R to 1M)
(With resistor 1 strip per value)
Total Qty: (0201) 48,200pcs.

NO.	Value
121	3K16
122	3K32
123	3K48
124	3K65
125	3K83
126	4K02
127	4K22
128	4K42
129	4K64
130	4K87
131	5K11
132	5K36
133	5K62
134	5K9
135	6K19
136	6K49
137	6K81
138	7K15
139	7K5
140	7K87
141	8K25
142	8K66
143	9K09
144	9K53
145	10K
146	10K5
147	11K
148	11K5
149	12K1
150	12K7

NO.	Value
151	13K3
152	14K
153	14K7
154	15K4
155	16K2
156	16K9
157	17K8
158	18K7
159	19K6
160	20K5
161	21K5
162	22K6
163	23K7
164	24K9
165	26K1
166	27K4
167	28K7
168	30K1
169	31K6
170	33K2
171	34K8
172	36K5
173	38K3
174	40K2
175	42K2
176	44K2
177	46K4
178	48K7
179	51K1
180	53K6

NO.	Value
181	56K2
182	59K
183	61K9
184	64K9
185	68K1
186	71K5
187	75K
188	78K7
189	82K5
190	86K6
191	90K9
192	95K3
193	100K
194	105K
195	110K
196	115K
197	121K
198	127K
199	133K
200	140K
201	147K
202	154K
203	162K
204	169K
205	178K
206	187K
207	196K
208	205K
209	215K
210	226K

NO.	Value
211	237K
212	249K
213	261K
214	274K
215	287K
216	301K
217	316K
218	332K
219	348K
220	365K
221	383K
222	402K
223	422K
224	442K
225	464K
226	487K
227	511K
228	536K
229	562K
230	590K
231	619K
232	649K
233	681K
234	715K
235	750K
236	787K
237	825K
238	866K
239	909K
240	953K
241	1M

Chip Kit Resistors

PRODUCT: RMC Kit (0402, 0603, 0805, 1206) +/-1%
E96 Series = 481 values (10R to 1M)
(With resistor 1 strip per value)
Total Qty: (0402) 48,200pcs. / (0603, 0805, 1206) 24,100pcs.)

NO.	Value
1	10R
2	10.2R
3	10.5R
4	10.7R
5	11R
6	11.3R
7	11.5R
8	11.8R
9	12.1R
10	12.4R
11	12.7R
12	13R
13	13.3R
14	13.7R
15	14R
16	14.3R
17	14.7R
18	15R
19	15.4R
20	15.8R
21	16.2R
22	16.5R
23	16.9R
24	17.4R
25	17.8R
26	18.2R
27	18.7R
28	19.1R
29	19.6R
30	20R

NO.	Value
31	20.5R
32	21R
33	21.5R
34	22.1R
35	22.6R
36	23.2R
37	23.7R
38	24.3R
39	24.9R
40	25.5R
41	26.10R
42	26.7R
43	27.4R
44	28R
45	28.7R
46	29.4R
47	30.1R
48	30.9R
49	31.6R
50	32.4R
51	33.2R
52	34R
53	34.8R
54	35.7R
55	36.5R
56	37.4R
57	38.3R
58	39.2R
59	40.2R
60	41.20R

NO.	Value
61	42.2R
62	43.2R
63	44.2R
64	45.3R
65	46.4R
66	47.5R
67	48.7R
68	49.9R
69	51.1R
70	52.3R
71	53.6R
72	54.9R
73	56.2R
74	57.6R
75	59R
76	60.4R
77	61.9R
78	63.4R
79	64.9R
80	66.5R
81	68.1R
82	69.8R
83	71.5R
84	73.2R
85	75R
86	76.8R
87	78.7R
88	80.6R
89	82.5R
90	84.5R

NO.	Value
91	86.6R
92	88.7R
93	90.9R
94	93.1R
95	95.3R
96	97.6R
97	100R
98	102R
99	105R
100	107R
101	110R
102	113R
103	115R
104	118R
105	121R
106	124R
107	127R
108	130R
109	133R
110	137R
111	140R
112	143R
113	147R
114	150R
115	154R
116	158R
117	162R
118	165R
119	169R
120	174R

Chip Kit Resistors

PRODUCT: RMC Kit (0402, 0603, 0805, 1206) +/-1%
E96 Series = 481 values (10R to 1M)
(With resistor 1 strip per value)
Total Qty: (0402) 48,200pcs. / (0603, 0805, 1206) 24,100pcs.)

NO.	Value
121	178R
122	182R
123	187R
124	191R
125	196R
126	200R
127	205R
128	210R
129	215R
130	221R
131	226R
132	232R
133	237R
134	243R
135	249R
136	255R
137	261R
138	267R
139	274R
140	280R
141	287R
142	294R
143	301R
144	309R
145	316R
146	324R
147	332R
148	340R
149	348R
150	357R

NO.	Value
151	365R
152	374R
153	383R
154	392R
155	402R
156	412R
157	422R
158	432R
159	442R
160	453R
161	464R
162	475R
163	487R
164	499R
165	511R
166	523R
167	536R
168	549R
169	562R
170	576R
171	590R
172	604R
173	619R
174	634R
175	649R
176	665R
177	681R
178	698R
179	715R
180	732R

NO.	Value
181	750R
182	768R
183	787R
184	806R
185	825R
186	845R
187	866R
188	887R
189	909R
190	931R
191	953R
192	976R
193	1K
194	1K02
195	1K05
196	1K07
197	1K1
198	1K13
199	1K15
200	1K18
201	1K21
202	1K24
203	1K27
204	1K3
205	1K33
206	1K37
207	1K4
208	1K43
209	1K47
210	1K5

NO.	Value
211	1K54
212	1K58
213	1K62
214	1K65
215	1K69
216	1K74
217	1K78
218	1K82
219	1K87
220	1K91
221	1K96
222	2K
223	2K05
224	2K1
225	2K15
226	2K21
227	2K26
228	2K32
229	2K37
230	2K43
231	2K49
232	2K55
233	2K61
234	2K67
235	2K74
236	2K8
237	2K87
238	2K94
239	3K01
240	3K09

Chip Kit Resistors

PRODUCT: RMC Kit (0402, 0603, 0805, 1206) +/-1%
E96 Series = 481 values (10R to 1M)
(With resistor 1 strip per value)
Total Qty: (0402) 48,200pcs. / (0603, 0805, 1206) 24,100pcs.)

NO.	Value
241	3K16
242	3K24
243	3K32
244	3K4
245	3K48
246	3K57
247	3K65
248	3K74
249	3K83
250	3K92
251	4K02
252	4K12
253	4K22
254	4K32
255	4K42
256	4K53
257	4K64
258	4K75
259	4K87
260	4K99
261	5K11
262	5K23
263	5K36
264	5K49
265	5K62
266	5K76
267	5K9
268	6K04
269	6K19
270	6K34

NO.	Value
271	6K49
272	6K65
273	6K81
274	6K98
275	7K15
276	7K32
277	7K5
278	7K68
279	7K87
280	8K06
281	8K25
282	8K45
283	8K66
284	8K87
285	9K09
286	9K31
287	9K53
288	9K76
289	10K
290	10K2
291	10K5
292	10K7
293	11K
294	11K3
295	11K5
296	11K8
297	12K1
298	12K4
299	12K7
300	13K

NO.	Value
301	13K3
302	13K7
303	14K
304	14K3
305	14K7
306	15K
307	15K4
308	15K8
309	16K2
310	16K5
311	16K9
312	17K4
313	17K8
314	18K2
315	18K7
316	19K1
317	19K6
318	20K
319	20K5
320	21K
321	21K5
322	22K1
323	22K6
324	23K2
325	23K7
326	24K3
327	24K9
328	25K5
329	26K1
330	26K7

NO.	Value
331	27K4
332	28K
333	28K7
334	29K4
335	30K1
336	30K9
337	31K6
338	32K4
339	33K2
340	34K
341	34K8
342	35K7
343	36K5
344	37K4
345	38K3
346	39K2
347	40K2
348	41K2
349	42K2
350	43K2
351	44K2
352	45K3
353	46K4
354	47K5
355	48K7
356	49K9
357	51K1
358	52K3
359	53K6
360	54K9

Datasheet

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Chip Kit Resistors

PRODUCT: RMC Kit (0402, 0603, 0805, 1206) +/-1%
E96 Series = 481 values (10R to 1M)
(With resistor 1 strip per value)
Total Qty: (0402) 48,200pcs. / (0603, 0805, 1206) 24,100pcs.)

NO.	Value
361	56K2
362	57K6
363	59K
364	60K4
365	61K9
366	63K4
367	64K9
368	66K5
369	68K1
370	69K8
371	71K5
372	73K2
373	75K
374	76K8
375	78K7
376	80K6
377	82K5
378	84K5
379	86K6
380	88K7
381	90K9
382	93K1
383	95K3
384	97K6
385	100K
386	102K
387	105K
388	107K
389	110K
390	113K

NO.	Value
391	115K
392	118K
393	121K
394	124K
395	127K
396	130K
397	133K
398	137K
399	140K
400	143K
401	147K
402	150K
403	154K
404	158K
405	162K
406	165K
407	169K
408	174K
409	178K
410	182K
411	187K
412	191K
413	196K
414	200K
415	205K
416	210K
417	215K
418	221K
419	226K
420	232K

NO.	Value
421	237K
422	243K
423	249K
424	255K
425	261K
426	267K
427	274K
428	280K
429	287K
430	294K
431	301K
432	309K
433	316K
434	324K
435	332K
436	340K
437	348K
438	357K
439	365K
440	374K
441	383K
442	392K
443	402K
444	412K
445	422K
446	432K
447	442K
448	453K
449	464K
450	475K

NO.	Value
451	487K
452	499K
453	511K
454	523K
455	536K
456	549K
457	562K
458	576K
459	590K
460	604K
461	619K
462	634K
463	649K
464	665K
465	681K
466	698K
467	715K
468	732K
469	750K
470	768K
471	787K
472	806K
473	825K
474	845K
475	866K
476	887K
477	909K
478	931K
479	953K
480	976K
481	1M

Datasheet