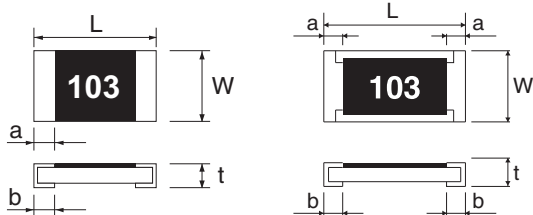


●Chip Resistor Dimensions and Markings

■ MCR006 / 01 / 03

■ MCR10 / 18 / 25 / 50 / 100



<Marking method>

There are three or four digits used for the calculation number according to IEC code and "R" is used for the decimal point.

(Unit : mm)

Part No.	Type Code	(mm)	(inch)	L	W	t	a	b	Marking existence
MCR006	YRT	0603	0201	0.6±0.03	0.3±0.03	0.23±0.03	0.15±0.05	0.15±0.05	No
MCR01	MRT	1005	0402	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.1}	No
MCR03	ERT	1608	0603	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2	Yes *
MCR10	ERT	2012	0805	2.0±0.1	1.25±0.1	0.5±0.1	0.35±0.2	0.35±0.2	Yes
MCR18	ERT	3216	1206	3.05±0.15	1.55±0.15	0.55±0.1	0.45±0.25	0.35±0.25	Yes
MCR25	JRT	3225	1210	3.2±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25	Yes
MCR50	JRT	5025	2010	5.0±0.15	2.5±0.15	0.55±0.15	0.6±0.25	0.6±0.25	Yes
MCR100	JRT	6432	2512	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.25	0.6±0.25	Yes

Marking method of jumper type

Jumper type	Marking existence
MCR006 / 01 / 25 / 50 / 100	No
MCR03 / 10 / 18	Yes

*Marking method of MCR03

The description of markings on the chip resistor are as shown below.

① Marking method (J class):

The nominal resistance is expressed in by E-24 series 3 digits.

The first 2 digits apply to the resistance value and the last one indicates the number of zeros to follow. The R is used as a decimal point.

Example : 100kΩ = 104

② Marking method (F/D class):

For the resistance value contained in E96 series.

The nominal resistance is expressed in 3 digits. The first 2 digits is symbol to the resistance value and the last one is symbol to multipliers.

Example : 100kΩ = 01d (01d → 100 × 10³ = 100,000Ω = 100kΩ)

Example : 3.01kΩ = 47b (47b → 301 × 10¹ = 3010Ω = 3.01kΩ)

For the resistance value not contained in E96 series and contained in E-24 series.

The marking is expressed by E-24 series in 3 digits and one short bar under the last marking letter.

Example : 390Ω = 391

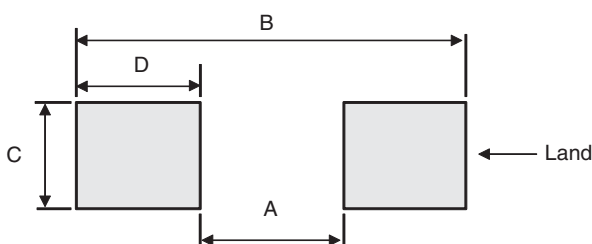
Symbol for E96 Series nominal resistance value

Symbol	E96	Symbol	E96	Symbol	E96	Symbol	E96
01	100	25	178	49	316	73	562
02	102	26	182	50	324	74	576
03	105	27	187	51	332	75	590
04	107	28	191	52	340	76	604
05	110	29	196	53	348	77	619
06	113	30	200	54	357	78	634
07	115	31	205	55	365	79	649
08	118	32	210	56	374	80	665
09	121	33	215	57	383	81	681
10	124	34	221	58	392	82	698
11	127	35	226	59	402	83	715
12	130	36	232	60	412	84	732
13	133	37	237	61	422	85	750
14	137	38	243	62	432	86	768
15	140	39	249	63	442	87	787
16	143	40	255	64	453	88	806
17	147	41	261	65	464	89	825
18	150	42	267	66	475	90	845
19	154	43	274	67	487	91	866
20	158	44	280	68	499	92	887
21	162	45	287	69	511	93	909
22	165	46	294	70	523	94	931
23	169	47	301	71	536	95	953
24	174	48	309	72	549	96	976

Symbol for multipliers

Symbol	A	b	C	d	E	F	X	Y
multipliers	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁻¹	10 ⁻²

●Land pattern Example



(Unit : mm)

Part No.	Type Code	A	B	C	D
MCR006	YRT	0.3	0.84	0.3	0.27
MCR01	MRT	0.5	1.3	0.5	0.4
MCR03	ERT	1.0	2.0	0.8	0.5
MCR10	ERT	1.2	2.6	1.15	0.7
MCR18	ERT	2.2	4.0	1.5	0.9
MCR25	JRT	2.2	4.0	2.3	0.9
MCR50	JRT	3.8	6.0	2.3	1.1
MCR100	JRT	5.1	8.1	3.0	1.5