

Chip Resistors

RMC

General purpose

Features

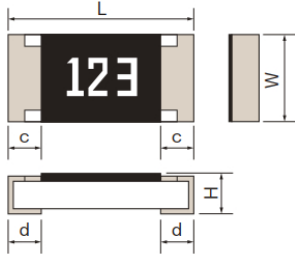
01005 to 2512 inch size and Jumper chip available.

Precise dimension by Laser-scriber method (RMC1/20,RMC1/32).

Please refer to Specification (Reference) at the Website to confirm the specification for more detail.

AEC-Q200 qualified. (RMC1/32 is not qualified.)

Dimensions



Please refer to Specification (Reference) at the Website for Marking.

Rated resistance value marking is 3-digit on the over coating except RMC1/16S & RMC1/20 & RMC1/32. 4-digit marking is available for F & G tolerance except RMC1/16, RMC1/16S & RMC1/20 & RMC1/32 type.

Unit : mm

Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
RMC1/32	0402	01005	0.4±0.02	0.2 ±0.02	0.13±0.02	0.08 ±0.03	0.1 ±0.03	0.035mg
RMC1/20	0603	0201	0.6±0.03	0.3 ±0.03	0.23±0.03	0.1 ±0.05	0.15 ±0.05	0.16mg
RMC1/16S	1005	0402	1.0±0.05	0.5 ±0.05	0.35±0.05	0.2 ±0.1	0.25 ^{+0.15} _{-0.05}	0.6mg
RMC1/16	1608	0603	1.6±0.1	0.8 ^{+0.15} _{-0.05}	0.45±0.10	0.3 ±0.1	0.3 ±0.1	2mg
RMC1/10	2012	0805	2.0±0.1	1.25 ±0.10	0.55±0.10	0.4 ±0.2	0.4 ±0.2	5mg
RMC1/8	3216	1206	3.1±0.1	1.6 ±0.15	0.55±0.10	0.5 ±0.25	0.5 ±0.25	9mg
RMC1/4	3225	1210	3.1±0.15	2.5 ±0.15	0.55±0.15	0.5 ±0.25	0.5 ±0.25	16mg
RMC1/2	5025	2010	5.0±0.15	2.5 ±0.15	0.55±0.15	0.6 ±0.2	0.6 ±0.2	25mg
RMC1	6332	2512	6.3±0.15	3.2 ±0.15	0.55±0.15	0.6 ±0.2	0.6 ±0.2	40mg

*Values for reference

Ratings

Style	Size Metric (inch)	Rated Dissipation at 70°C W	Rated Resistance Range				Tolerance on Rated Resistance	Temperature Coefficient of Resistance Code	10 ⁻⁴ /°C	Limiting Element Voltage V	Isolation Voltage V	Category Temperature Range °C
			10Ω	100Ω	1MΩ	10MΩ						
RMC1/32	0402 (01005)	0.03 (0.5A)	1 ~ 4.3	4.7 ~ 9.1	10 ~ 91	100 ~ 1M	J	—	+600 ~ -200	15	50	-55 ~ +125
			—	—	—	—	F, J	—	+300 ~ -200			
			—	—	—	—	—	—	+200 ~ -200			
RMC1/20	0603 (0201)	0.05 (1.0A)	1 ~ 3.92	4.02 ~ 9.76	10 ~ 1M	1.1M ~ 10M	F, J	—	+600 ~ -200	25	100	-55 ~ +125
			—	—	—	—	B, D, F, G, J	—	+200 ~ -200			
			—	—	—	—	—	—	+350 ~ -100			
RMC1/16S	1005 (0402)	0.1 (1.0A)	1 ~ 9.76	—	10 ~ 1M	1.1M ~ 10M	F, J	—	+500 ~ -200	50	100	-55 ~ +125
			—	—	—	—	G, J	—	+200 ~ -200			
			—	—	—	—	B, D, F, K	—	+100 ~ -200			
RMC1/16	1608 (0603)	0.1 (2.0A)	1 ~ 9.76	—	10 ~ 3.3M	3.6M ~ 10M	D, F, G, J	—	+200 ~ -200	150	500	-55 ~ +125
			—	—	—	—	F, G, J	—	+500 ~ -200			
			—	—	—	—	G, J	—	+200 ~ -200			
RMC1/10	2012 (0805)	0.125 (2.0A)	1 ~ 9.76	—	10 ~ 2.2M	2.2M ~ 3.3M	B, D, F, G, J	—	+200 ~ -200	200	500	-55 ~ +125
			—	—	—	—	F, G, J	—	+500 ~ -200			
			—	—	—	—	G, J	—	+200 ~ -200			
RMC1/8	3216 (1206)	0.25 (2.0A)	1 ~ 9.76	—	10 ~ 1M	1.02M ~ 10M	B, D, F, G, J	—	+200 ~ -200	200	500	-55 ~ +125
			—	—	—	—	F, G, J	—	+500 ~ -200			
			—	—	—	—	G, J	—	+200 ~ -200			
RMC1/4	3225 (1210)	0.5 (2.0A)	1 ~ 9.76	—	10 ~ 1M	1.02M ~ 10M	B, D, F, G, J	—	+200 ~ -200	200	500	-55 ~ +125
			—	—	—	—	F, G, J	—	+500 ~ -200			
			—	—	—	—	G, J	—	+200 ~ -200			
RMC1/2	5025 (2010)	0.75 (2.0A)	1 ~ 9.76	—	10 ~ 1M	1.1M ~ 22M	F, J	—	+500 ~ -200	200	500	-55 ~ +125
			—	—	—	—	G, J	—	+200 ~ -200			
			—	—	—	—	K	—	+100 ~ -200			
RMC1	6332 (2512)	1.0 (2.0A)	1 ~ 9.76	—	10 ~ 1M	1.1M ~ 22M	F, J	—	+500 ~ -200	200	500	-55 ~ +125
			—	—	—	—	G, J	—	+200 ~ -200			
			—	—	—	—	K	—	+100 ~ -200			

Note1. E24 series is available, E96 series is available for tolerance "F" (1%), E96 series is available for tolerance "D" (±0.5%), "F" (±1%), "D" (±0.5%) is Kamaya products

Note2. Rated Voltage = √(Rated Dissipation) × (Rated Resistance). (d.c. or a.c. r.m.s. Voltage)

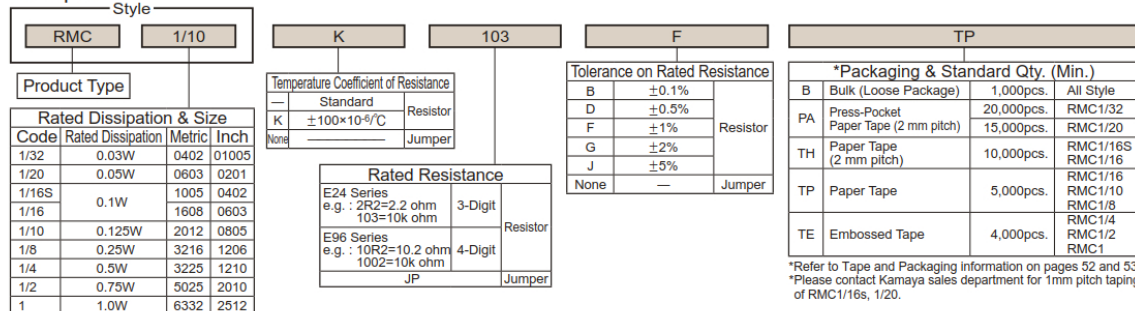
Note3. Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

Note4. Critical Resistance Value is the resistance value at which the rated voltage is equal to the limiting element voltage.

Note5. Jumper : Resistance value is less than 50m ohm.

Part Number Description

Example



*Refer to Tape and Packaging information on pages 52 and 53. *Please contact Kamaya sales department for 1mm pitch taping of RMC1/16S, 1/20.