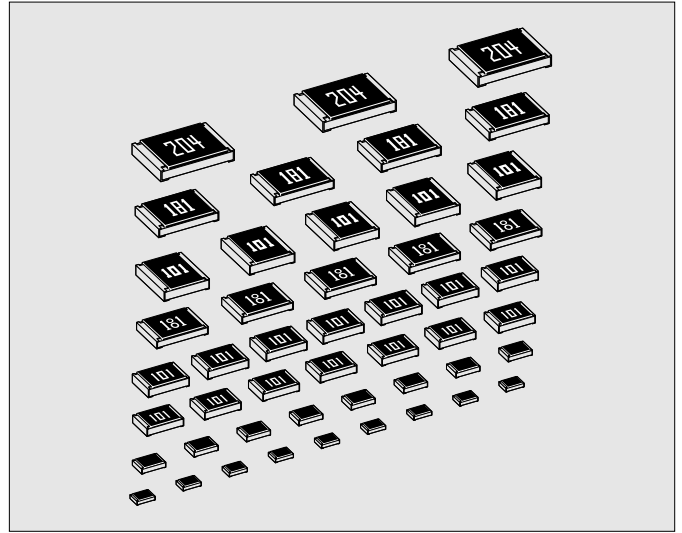


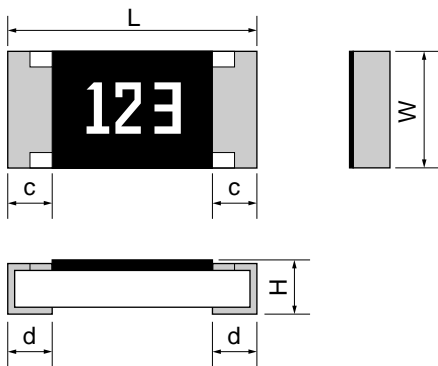
RMC1/20, 1/16S, 1/16, 1/10, 1/8, 1/4, 1/2, 1

●Features

1. 8 sizes available : from 0201 ~ 2512.
2. Highly stabilized metal-glaze is used for the electrodes.
3. Coated with a glass-coating to improve resistance against mechanical stress.
4. Stability Class : 5%



●Dimensions



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

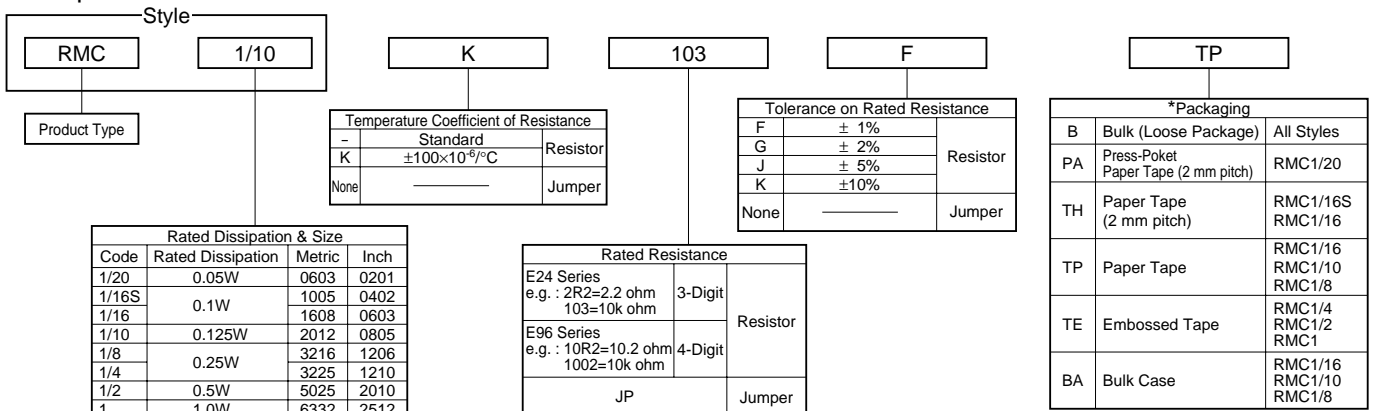
Style	Metric	Inch	L	W	H	c	d	*Unit weight/pc.
RMC1/20	0603	0201	0.6±0.03	0.3 ±0.03	0.23±0.03	0.1±0.05	0.15 ±0.05	0.16mg
RMC1/16S	1005	0402	1.0±0.05	0.5 ±0.05	0.35±0.05	0.2±0.1	0.25 ^{+0.05} _{-0.10}	0.6mg
RMC1/16	1608	0603	1.6±0.1	0.8 ^{+0.15} _{-0.05}	0.45±0.10	0.3±0.1	0.3 ±0.1	2mg
RMC1/10	2012	0805	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	3.2±0.15	1.6 ±0.15	0.55±0.10	0.5±0.25	0.5 ±0.25	9mg
RMC1/4	3225	1210	3.2±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

Unit : mm

*Values for reference

●Parts Number Description

Example



*Refer to Tape and Packaging information on pages 34 and 35.

●Ratings

Style	Rated Dissipation at 70°C W	Rated Current of Jumper A	Limiting Element Voltage V	Combinations of Temperature Coefficient of Resistance and Tolerance on Rated Resistance [Above:T.C.R.(10 ⁻⁶ /°C), Middle:Tolerance on Rated Resistance, Below:Rated Resistance Range(ohm)]							Preferred Number Series for Resistors	Isolation Voltage V	Category Temperature Range °C
				Rated Resistance Range	1 ohm	10 ohm	100 ohm	1M ohm	3.3M ohm	5.6M ohm			
RMC1/20	0.05	1.0	25	+600~200 J	±300 F, G, J	±200 F, G, J	±200 J				50	-55~+125	
RMC1/16S	0.1		50	+500~200 F, J	±300 F, G, J	±200 F*, G, J	±200 F, G, J	±200 F, J	±200 J				Tolerance:F(±1%) E96 Series E24 Series
RMC1/16				+1000~+300 K	+500~200 F, G, J	+500~200 F, G, J	+500~200 F*, G, J	+500~200 F, G, J	+500~200 F, J	+500~200 J			
RMC1/10	0.125		150	0.47~0.91 K	1~9.76 F, G, J	1~9.76 F, G, J	1~9.76 F*, G, J	1~9.76 F, G, J	1~9.76 F, J	1~9.76 J	Tolerance:G(±2%) Tolerance:J(±5%) E24 Series		
RMC1/8	0.25	2.0	200	+1000~+300 K	+500~200 F, G, J	+500~200 F*, G, J	+500~200 F, G, J	+500~200 F, G, J	+500~200 J		Tolerance:K(±10%) E24 Series		
RMC1/4					+1000~+300 K	+500~200 F, J	+500~200 F*, G, J	+500~200 F, G, J	+500~200 F, G, J	+500~200 J			
RMC1/2	0.5			0.2~0.91 K	1~9.76 F, J	1~9.76 F*, G, J	1~9.76 F, G, J	1~9.76 F, G, J	1~9.76 J				
RMC1	1.0			+1000~+300 K	+500~200 F, J	+500~200 F*, G, J	+500~200 F, G, J	+500~200 F, G, J	+500~200 J				

F* = T.C.R.: ±100×10⁻⁶/°C

Note1. Rated Voltage = √(Rated Dissipation)×(Rated Resistance). (d.c. or a.c. r.m.s. Voltage)

Note2. Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

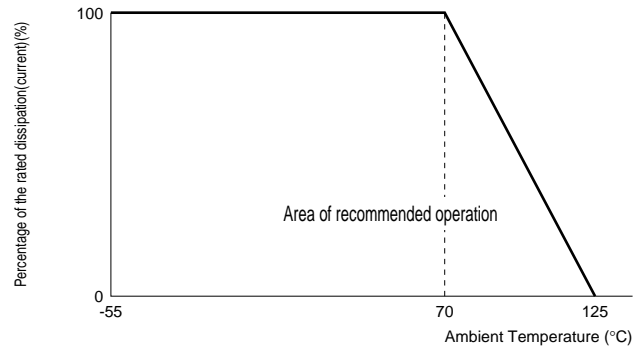
●Derating Curve

The derated values of dissipation for temperatures in excess of 70°C shall be indicated by the following Curve.
(For Jumpers the load current shall be derated according to the Derating Curve)

●Climatic Category

55/125/56

Lower Category Temperature -55°C
Upper Category Temperature +125°C
Duration of the Damp heat, Steady-State Test 56 days



●Performance Characteristics JIS C 5201-1 : 1998

Description	Requirements	Test Methods
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 RMC1/20 50Va.c.,60s RMC1/16S,1/16 100Va.c.,60s RMC1/10~1 500Va.c.,60s
Variation of resistance with temperature	See Ratings Table	Clause 4.8 Measuring temperature :+20°C/-55°C/+20°C/+125°C/+20°C
Overload	ΔR≤±(1%+0.05 ohm) No visible damage, legible marking	Clause 4.13 The applied voltage shall be 2.5 times of the rated voltage or twice of the limiting element voltage, whichever is the less severe, 2s.
Solderability	In accordance with Clause 4.17.4.5	Clause 4.17 235°C, 2s
Resistance to soldering heat	ΔR≤±(1%+0.05 ohm)	Clause 4.18 After immersion into the flux, the immersion into solder shall be carried out in Solder bath at 260°C for 5s.
Rapid change of temperature	ΔR≤±(1%+0.05 ohm) No visible damage	Clause 4.19 5 cycles between -55°C and +125°C.
Climatic sequence	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.23 Dry/Damp heat(12+12h cycle), first cycle./ Cold/Damp heat(12+12h cycle), remaining cycle./ D.C.Load.
Damp test, steady state	ΔR≤±(5%+0.1 ohm) No visible damage, legible marking	Clause 4.24 40°C, 95%R.H., 56 days, test a) and b) of Clause 4.24.2.1
Endurance at 70°C	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.25.1 Rated voltage, 1.5h"ON", 0.5h"OFF", 70°C, 1,000h
Endurance at the upper category temperature	ΔR≤±(5%+0.1 ohm) No visible damage	Clause 4.25.3 125°C, no-load, 1,000h.
Adhesion	No visible damage	Clause 4.32 5N, 10s (RMC1/20 = 3N)
Bend strength of the face plating	ΔR≤±(1%+0.05 ohm)	Clause 4.33 RMC1/20~1/4 Amount of bend : 3 mm RMC1/2, 1 Amount of bend : 1 mm