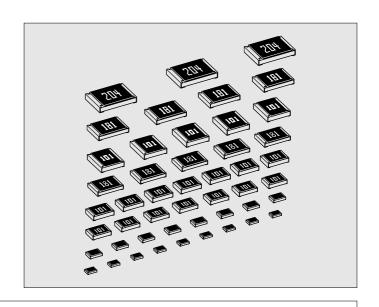
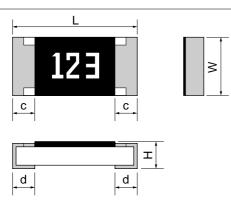
RMC1/20, 1/16S, 1/16, 1/10, 1/8, 1/4, 1/2, 1

Features

- 1. A series of resistors and jumper chips from 0201 to 2512 for use in a wide variety of circuits.
- 2. Highly stabilized metal-glaze is used for the electrodes together with a glass-coating to improve resistance to mechanical stress.
- 3. Stability class: 5%



Dimensions and Structure



Resistance is marked with 3-digits 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.

Unit: mm

Style	Metric	Inch	L	W	Н	С	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
	•	•			•		•	

*Values for reference

Application

All Styles

Product Classification

Example

	xampie												
RMC 1/10			K		103			F			TP		
① Prod	uct Type ②R	ated Dissipat	ion & Size	3	Temperature Coefficient of Re	esistance	4 Rated R	esistanc	e <u>5</u> T	olerance on Rated R	esistance		⑥Packaging
	Stv	vle			emperature Coefficient of Re					lerance on Rated R			* 6 Packaging
	0.,	,		Code	Temperature Coefficient of Resistance	Application			Code	olerance on Rated Resistance	Application	Code	
				-	Standard	Resistor			<u> </u>	± 1%		В	Bulk(Loose Package)
① Prod	luct Type			K None	±100×10 ⁻⁶ /°C	Jumper			J K	± 2% ± 5% ±10%	Resistor	TP	Paper Tape.
		Dissipation a							None		Jumper	TE	Embossed Tape.
Code	Rated Dissi		Si				4 Rated R	esistano	e	7			
4/00	(Jumper's Ra		Metric	Inch		Rate	ed Resistan	ce	Application	on			Paper Tape.
1/20	0.05W	(1A)	0603	0201 0402		E24 Serie	s			7		TH	(2mm pitch)
1/16S 1/16	0.063W 0.1W	(1A) (1A)	1005 1608	0603		e.g : 2R2=	=2.2 ohm	3Digit					(Zillili piteri)
1/10	0.1VV 0.125W	(1A) (2A)	2012	0805		103:	=10k ohm		D : - t				Press-Poket
1/10	0.125W	(2A)	3216	1206		E96 Serie	s		Resistor			PA	Paper-Taping
1/4	0.25W	(2A)	3225	1210			2=10.2 ohm	4Digit					.,,
1/2	0.2377	(2A)	5025	2010		1002	2=10k ohm					l ва	Bulk Case

RMC1/16 er Tape. RMC1/8 RMC1/4 RMC1/2 RMC1 oossed Tape. RMC1/20 er Tape. m pitch) RMC1/16 Press-Poket Paper-Taping RMC1/16 RMC1/10 RMC1/8 Bulk Case

*Refer to Taping and Packaging information in page 34.35 www.DataSneet 4U.com

Jumper

Ratings

	Rated	Rated	Limiting	Temperature	Combi	Combinations of Resistance Range and Tolerance				Category
Style	Dissipation at 70°C W	Current of Jumper A	Element Voltage V	Coefficient of Resistance 10 ⁻⁶ /°C	F(±1%) E96 Series E24 Series	G(±2%) E24 Series	J(±5%) E24 Series	K(±10%) E12 Series	Voltage V	Temperature Range °C
RMC1/20	0.05		25	±200	100ohm~1Mohm	100ohm~1Mohm	100ohm~1Mohm		50	-55~+125
KIVIC 1/20	0.05			±300	10ohm~97.6ohm	10ohm~91ohm	10ohm~91ohm			
			50	±100	100ohm~1Mohm	ı	1	_	100	
RMC1/16S				±200	10ohm~5.6Mohm	10ohm~2.2Mohm	10ohm~10Mohm			
		1.0		±500	1ohm~9.76ohm		1ohm~9.1ohm			
Sheet4U.com	0.1			±100	100ohm~1Mohm	ı	-			
RMC1/16				±200	10ohm~4.7Mohm	10ohm~2.2Mohm	10ohm~22Mohm			
KIVIC 1/ TO				+500~-200	1ohm~9.76ohm	1ohm~9.1ohm	1ohm~9.1ohm			
				+1000~+300	-			0.47ohm~0.91ohm		
	RMC1/10 0.125			±100	10ohm~2.2Mohm	_	_			
RMC1/10			150	±200	10ohm~10Mohm	10ohm~10Mohm	10ohm~22Mohm			
KIVIC 1/10	0.120			+500~-200	1ohm~9.76ohm	1ohm~9.1ohm	1ohm~9.1ohm			
				+1000~+300	-	_		0.27ohm~0.91ohm		
				±100	10ohm~1Mohm					
RMC1/8				±200	10ohm~10Mohm	10ohm~10Mohm	10ohm~24Mohm	-		
KIVIC 1/0				+500~-200	1ohm~9.76ohm	1ohm~9.1ohm	1ohm~9.1ohm			
	0.25			+1000~+300	-	_		0.22ohm~0.91ohm		
	0.23			±100	10ohm~1Mohm					
RMC1/4		2.0		±200	10ohm~10Mohm	10ohm~10Mohm	10ohm~22Mohm	_		
IXIVIC 1/4		2.0		+500~-200	1ohm~9.76ohm		1ohm~9.1ohm			
				+1000~+300	-	_	_	0.2ohm~0.91ohm		
RMC1/2 0.5		200	±100	10ohm~1Mohm		_]			
	0.5			±200	10ohm~1Mohm	10ohm~1Mohm	10ohm~22Mohm	-		
	1.0			+500~-200	1ohm~9.76ohm	-	1ohm~9.1ohm			
				+1000~+300	-		_	0.33ohm~0.91ohm		
				±100	10ohm~1Mohm					
RMC1				±200	10ohm~1Mohm	10ohm~1Mohm	10ohm~22Mohm	-		
INIVICT 1.0	1.0			+500~-200	1ohm~9.76ohm	_	1ohm~9.1ohm			
				+1000~+300	_		_	0.33ohm~0.91ohm		

Note.1 Rated Voltage = $\sqrt{\text{(Rated Dissipation)} \times (\text{Rated Resistance})}$.(d.c. or a.c. r.m.s. Voltage)

Note.2 Limiting Element Voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

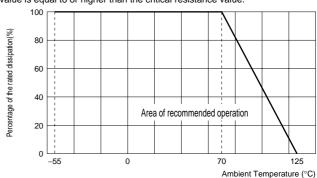
Derating Curve

The derated values of dissipation at temperature in excess of 70°C shall be as indicated by the following Curve. (The load current shall be derated according to Derating Curve in case of the Jumper)

Climatic Category

55/125/56

 $\begin{array}{lll} \mbox{Lower Category Temperature} & -55^{\circ}\mbox{C} \\ \mbox{Upper Category Temperature} & +125^{\circ}\mbox{C} \\ \mbox{Duration of the Damp heat, Steady-State Test} & 56\mbox{ days} \\ \end{array}$



●Performance Characteristics ...IIS C 5201-1 : 1998

Description	Requirements	Test Methods
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 RMC1/10~RMC1 500Va.c.,60s RMC1/16S,1/16 100Va.c.,60s RMC1/20 50Va.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%+0.05ohm) 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%+0.05ohm)	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%+0.05ohm) No visible damage	Clause 4.19 5 cycles between -55°C and +125°C.
Climatic sequence	ΔR≤±(5%+0.1ohm) 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%+0.1ohm) 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%+0.1ohm) No visible damage	Clause 4.25.1 Rated voltage, 1.5h"ON", 0.5h"OFF", 70°C, 1000h
Endurance at the upper category temperature	ΔR≤±(5%+0.1ohm) No visible damage	Clause 4.25.3 125°C, no-load, 1000h.
Adhesion	No visible damage	Clause 4.32 5N, 10s (RMC1/20 = 3N)
Bend strength of the face plating	ΔR≤±(1%+0.05ohm)	Clause 4.33 Amount of bend RMC 1/20, 1/16S, 1/16, 1/10, 1/8, 1/4 : 3mm RMC1/2, 1 : 1mm