No.: RMC-K-HTS-0006 /13

Date: 2022. 8. 19

Data sheet

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE

Style: RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1

RoHS COMPLIANCE ITEM Halogen and Antimony Free

Note: •Stock conditions

Temperature: +5°C ~ +35°C Relative humidity: 25% ~ 75%

The period of guarantee: Within 2 year from shipment by the company.

Solderability shall be satisfied.

- Product specification contained in this data sheet are subject to change at any time without notice
- If you have any questions or a Purchasing Specification for any quality agreement is necessary, please contact our sales staff.



Hokkaido Research Center Approval by: T. Sannomiya Drawing by: M. Shibuya

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1. Scope

1.1 This data sheet covers the detail requirements for fixed thick film chip resistors; rectangular type, style of RMC1/32, 1/20, 1/16S, 1/16, 1/10, 1/8, 1/4, 1/2, 1.

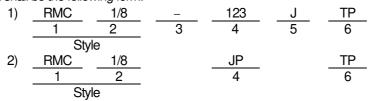
1.2 Applicable documents

JIS C 5201–1:2011, JIS C 5201–8:2014, JIS C 5201–8–1: 2014 IEC60115–1:2008, IEC60115–8: 2009, IEC60115–8–1: 2014 EIAJ RC–2134C–2010

2. Classification

Type designation shall be the following form.

(Example)



1 Fixed thick film chip resistors; rectangular type

2 Rated dissipation and / or dimension

3 Temperature coefficient of resistance

K	±100×10 ⁻⁶ / °C
-(Dash)	Standard

4 Rated resistance

123	E24 Series, 3 digit,	Ex. 123> 12kΩ,
1000	E96 Series, 4 digit,	Ex. 1000>100Ω
		1022>10.2kΩ
JP	Chip jumper	

5 Tolerance on rated resistance

D	±0.5%
F	±1%
G	±2%
J	±5%

6 Packaging form 1. Scope

В	Bulk (loose package)				
PA	Press pocket taping				
TH	Departaning				
TP	TP Paper taping				
TE	Embossed taping				

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3. Rating

3.1 The ratings shall be in accordance with Table-1.

Table-1(1)

0: :	Rated	Temperature coefficient of resistance (10-6/°C)		-1(1) Rated resistance	Preferred	Tolerance on rated resistance		
Style	dissipation (W)			range (Ω)	number series for resistors			
			±200	100~1M				
			±300	10~91	E24, 96	F(±1%)		
DMC1/00	0.00	Ctorodoval	+600~-200	4.7~9.1		, ,		
RMC1/32	0.03	Standard	±200	100~1M				
			±300	10~91	E24	J(±5%)		
			+600~-200	1.0~9.1				
			±200	10~1M		D(±0.5%)		
			±200	10~10M	E24, 96			
			+350~-100	4.02~9.76	E24, 90	F(±1%)		
RMC1/20	0.05	Standard	+600~-200	1~3.92				
MIVIC 1/20	0.05	Stariuaru	±200	10~1M		G(±2%)		
			±200	10~10M	E24			
			+350~-100	4.3~9.1	E24	J(±5%)		
			+600~-200	1~3.9				
		K	±100	10~1M	E24, 96	D(±0.5%)		
		Standard K 0.1 Standard	±200	1.02M~3.3M				
			±100	10~1M		F(±1%)		
RMC1/16S	0.1		±200	1.02M~10M				
NIVIC I/ 103	0.1		+500~-200	1~9.76				
			±200	10~3.3M	E24	G(±2%)		
			±200	10~10M		J(±5%)		
			+500~-200	1~9.1		J(±5 /6)		
		K	±100	10~3.3M		D(±0.5%)		
		IX	±100	10~10M	E24, 96	F(±1%)		
			+500~-200	1~9.76		1 (±1 /0)		
RMC1/16	0.1		±200	10~10M		C(+20/)		
			Standard	Standard	+500~-200	1.0~9.1	E24	G(±2%)
			±200	10~22M	L24	J(±5%)		
			+500~-200	1.0~9.1		J(±5 /6)		
		K	±100	10~2.2M		D(10 F0()		
		Standard	±200	2.21M~3.3M		D(±0.5%)		
		K	±100	10~2.2M	E24,96			
RMC1/10			±200	2.21M~10M		F(±1%)		
	0.125		+500~-200	1.0~9.76		, ,		
		Ctondova	±200	10~10M		C(100()		
		Standard	+500~-200	1.0~9.1	E24	G(±2%)		
			±200	10~22M		1/150/)		
			+500~-200	1.0~9.1		J(±5%)		

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Table-1(2)

Style	Rated dissipation (W)	Temperature coefficient of resistance (10 ⁶ /°C)		Rated resistance range (Ω)	Preferred number series for resistors	Tolerance on rated resistance			
		К	±100	10~1M		D(±0.5%)			
			±200	1.02M~10M	E24,96	F(±1%)			
D1.40.4/9	0.05		+500~-200	1.0~9.76		(=1,70)			
RMC1/8	0.25		±200	10~10M					
		Standard	+500~-200	1.0~9.1		G(±2%)			
			±200	10~24M	E24	1/150/)			
			+500~-200	1.0~9.1		J(±5%)			
		К	±100	10~1M		D(±0.5%)			
		, ,	±100	10~1101	E24,96	F(±1%)			
		Standard	±200	1.02M~10M					
RMC1/4	0.5		+500~-200	1.0~9.76					
			±200	10~10M	E24	G(±2%)			
				10~22M		J(±5%)			
			+500~-200	1.0~9.1		U(±376)			
	K	K	±100	10~1M	E24, 96	F(±1%)			
			+500~-200	1.0~9.76	L24, 50	1 (±176)			
RMC1/2	0.75	Standard	±200	10~1M		G(±2%)			
		Otaridara		10~22M	E24	J(±5%)			
			+500~-200	1.0~9.1					
		K	±100	10~1M	E24, 96	F(±1%)			
			+500~-200	1.0~9.76	LL 1, 00				
RMC1	1.0	Standard	±200	10~1M		G(±2%)			
		J.a. ida d		10~22M	E24	J(±5%)			
						+500~-200	1.0~9.1		0(-070)

Style	Limiting element voltage (V)	Insulation voltage (V)	Category temperature range (°C)
RMC1/32	15	E0	<i>–</i> 55∼+125
RMC1/20	25	50	
RMC1/16S	50	100	
RMC1/16	50	100	
RMC1/10	150		-55~+155
RMC1/8			-35-4133
RMC1/4	200	500	
RMC1/2	200		
RMC1			

Note. Rated current of chip jumper: RMC1/32: 0.5(A), RMC1/20, 1/16S: 1(A),

RMC1/16, 1/10, 1/8, 1/4, 1/2,1:2(A)

Note. Resistance value of chip jumper: 50 m Ω max.

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3.2 Climatic category

3.2.1 RMC1/32

55/125/56 Lower category temperature – 55 °C

Upper category temperature +125 °C

Duration of the damp heat, steady state test 56days

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

55/155/56 Lower category temperature – 55 °C

Upper category temperature +155 °C

Duration of the damp heat, steady state test 56days

3.3 Stability class

2% Limits for change of resistance:

-for long-term tests $\pm (2\%+0.1\Omega)$ Chip jumper: 50 m Ω max.

*RMC1/32. 1/20: ±(3%+0.1Ω)

-for short-term tests $\pm (0.5\% + 0.05\Omega)$ Chip jumper: 50 mΩ max.

3.4 Derating

The derated values of dissipation (or current rating in case of chip jumper) at temperature in excess of 70 °C shall be as indicated by the following curve.

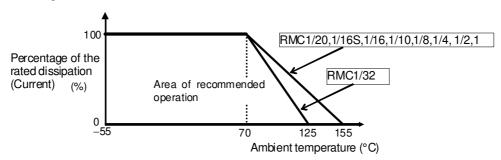


Figure-1 Derating curve

3.5 Rated voltage

d. c. or a. c. r. m. s. voltage calculated from the square root of the product of the rated resistance and the rated dissipation.

$$E : Rated voltage (V)$$

$$E = \bigvee P \cdot R$$

$$P : Rated dissipation (W)$$

$$R : Rated resistance (\Omega)$$

Limiting element voltage can only be applied to resistors when the resistance value is equal to or higher than the critical resistance value.

At high value of resistance, the rated voltage may not be applicable.

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4. Packaging form

The standard packaging form shall be in accordance with Table-2.

Table-2

Symbol	Pad	ckaging form	Standard packaging quantity / units	Application
В	Bulk (loose package)		1,000 pcs.	RMC1/32,1/20,1/16S,1/16,1/10 ,1/8,1/4,1/2,1
PA	Press pocket taping	8mm width, 2mm pitches	20,000 pcs.	RMC1/32
FA	(paper taping)	ornin wath, zmin pitches	15,000 pcs.	RMC1/20
TH	Paper taping	8mm width, 2mm pitches	10,000 pcs.	RMC1/16S
TP	Paper taping 8mm width, 4mm pitches		5,000 pcs.	RMC1/16, 1/10, 1/8
TE Embossed taping		8mm width, 4mm pitches	4,000 pcs.	RMC1/4
16	Embossed taping	12mm width, 4mm pitches	4,000 pcs.	RMC1/2, 1

5. Dimensions

5.1 The resistor shall be of the design and physical dimensions in accordance with Figure-2 and Table-3.

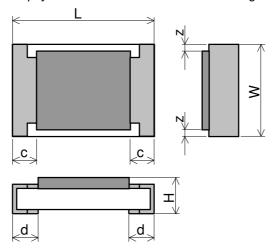


Figure-2

Table-3 Unit: mm

Style	L	W	Н	С	d	Z
RMC1/32	0.4±0.02	0.2±0.02	0.13±0.02	0.08±0.03	0.1±0.03	
RMC1/20	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05	
RMC1/16S	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.10}$	
RMC1/16	1.6±0.1	0.8 ^{+0.15}	0.45±0.10	0.3±0.1	0.3±0.1	
RMC1/10	2.0±0.1	1.25±0.10	0.55±0.10	0.4±0.2	0.4±0.2	
RMC1/8	3.1±0.1	1.6±0.15	0.55±0.10	0.5±0.25	0.5±0.25	0.05~0.3
RMC1/4	3.1±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25	0.05~0.3
RMC1/2	5.0±0.15	2.5±0.15	0.55±0.15	0.6±0.2	0.6±0.2	0.05~0.35
RMC1	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.2	0.6±0.2	0.05~0.35

RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Page: 6/18

5.2 Net weight (Reference)

Style	Net weight(mg)
RMC1/32	0.035
RMC1/20	0.16
RMC1/16S	0.6
RMC1/16	2
RMC1/10	5
RMC1/8	9
RMC1/4	16
RMC1/2	25
RMC1	40

6. Marking

The Rated resistance of RMC1/32, 1/20, 1/16S is not be marked.

6.1 RMC1/10,1/8,1/4,1/2,1

The nominal resistance shall be marked in 3 digits or 4 digits and marked on over coat side.

• Malaysia products: E24 series: 3 digits, E96 series: 4 digits

In case of the resistance value that E96 overlaps with E24, It is marked by either.

• China products(RMC1/10,1/8): J(±5%): 3 digits, F(±1%): 4 digits

Marking example		Contents	Application
Malaysia	China	Contents	Арріісаціон
123	123	$12\times10^3 \ [\Omega] \rightarrow 12 \ [k\Omega]$	RMC1/10,1/8,1/4,1/2,1
2R2	2R2	2.2 [Ω]	Less than 10Ω of RMC1/8,1/4,1/2,1
2.2	2R2	2.2 [Ω]	Less than 10Ω of RMC1/10
5623	5623	$562\times10^{3} [\Omega] \rightarrow 562[k\Omega]$	RMC1/10,1/8,1/4,1/2,1
12R7	12R7	12.7 [Ω]	RMC1/10,1/81/4,1/2,1

6.2 RMC1/16

The nominal resistance shall be marked in 3 digits (E24 and/or E96) and marked on over coat side. No marking in the E96 series of a Malaysia.

In case of the resistance value that E96 overlaps with E24, there is a case to mark in E96.

Marking example		Contents	Application	
Malaysia	China	Contents	Application	
123	123	$12\times10^3 \ [\Omega] \rightarrow 12 \ [k\Omega]$	E24	
2R2	2R2	2.2 [Ω]	E24	
No marking	02C	$102\times10^2 \left[\Omega\right] \rightarrow 10.2 \left[k\Omega\right]$	E96	
No marking	51X	$332\times10^{-1} \left[\Omega\right] \rightarrow 33.2 \left[\Omega\right]$	E96	

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6.2.1 Symbol for E96 series of resistance value

E96	Symbol								
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	388	57	619	77		
150	18	243	38	392	58	634	78		
154	19	249	39	402	59	649	79		

412

60

665

80

6.2.2 Symbol of multipliers

158

Symbol	Υ	Х	Α	В	С	D	Е	F
Multipliers	10 ⁻²	10 ⁻¹	10 ⁰	10¹	10 ²	10 ³	10 ⁴	10 ⁵

40

6.3 Marking example of Jumper Chip

Marking exa	ample	Contonto	Application	
Malaysia China		Contents	Application	
O or 000	000		RMC1/16	
0	000	JP	RMC1/10,1/8	
000			RMC1/4,1/2,1	

255

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7. Performance

7.1 The standard condition for tests shall be in accordance with Sub-clause 4.2, JIS C 5201–1: 2011.

7.2 The performance shall be satisfied in Table-4.

Table 4(1)

No	Test items	Iable-4(1)	Porformance requirements
No.		Condition of test (JIS C 5201–1)	Performance requirements
1	Visual examination	Sub-clause 4.4.1 Checked by visual examination.	As in 4.4.1 The marking shall be legible, as checked by visual examination.
2	Dimension	Sub-clause 4.4.2	As specified in Table-3 of this specification.
	Resistance	Sub-clause 4.5	As in 4.5.2 The resistance value shall correspond with the rated resistance taking into account the specified tolerance. Chip jumper: 50mΩ max.
3	Voltage proof	Sub-clause 4.7 Method: 4.6.1.4(See Figure-5) Test voltage: Alternating voltage with a peak value of 1.42 times the insulation voltage. Duration: 60 s ± 5 s Insulation resistance Test voltage: Insulation voltage Duration: 1 min.	No breakdown or flash over $R \geq 1 \; G \; \Omega$
4	Solderability	Sub-clause 4.17 Without ageing Flux: The resistors shall be immersed in a non-activated soldering flux for 2s. Bath temperature: 235 °C ± 5 °C Immersion time: 2 s ± 0.5 s	As in 4.17.4.5 The terminations shall be covered with a smooth and bright solder coating.
5	Mounting Overload (in the mounted state)	Sub-clause 4.31 Substrate material: Epoxide woven glass Test substrate: Figure-3 Sub-clause 4.13 The applied voltage shall be 2.5 times the rated voltage or twice the limiting element voltage, whichever is the less severe. Duration: 2 s Visual examination Resistance	No visible damage $\Delta R \le \pm (1\% + 0.05\Omega)$ Chip jumper: $50 \text{m} \Omega$ max.
	Solvent resistance of the marking	Sub-clause 4.30 Solvent: 2-propanol Solvent temperature: 23 °C ± 5 °C Method 1 Rubbing material: cotton wool Without recovery	Legible marking

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Table 4(2)

	1able_4(2)							
No	Test items	Condition of test (JIS C 5201–1)	Performance requirements					
6	Mounting	Sub-clause 4.31 Substrate material: Epoxide woven glass						
	Bound strength of the end face plating	Test substrate: Figure–4 Sub–clause 4.33 Bent value: 3 mm (3225 size max.) 1 mm (5025 size min.) Resistance	$\Delta R \le \pm (0.5\% + 0.05\Omega)$					
	Final measurements	Sub-clause 4.33.6 Visual examination	Chip jumper: $50 m\Omega$ max. No visible damage					
7	Resistance to soldering heat	Sub-clause 4.18 Solder temperature: 260 °C ± 5 °C Immersion time: 10 s ± 0.5 s Visual examination Resistance	As in 4.18.3.4 No sign of damage such as cracks. $\Delta R \le \pm (0.5\% + 0.05\Omega)$					
	Component solvent resistance	Sub-clause 4.29 Solvent: 2-propanol Solvent temperature: 23 °C ± 5 °C Method 2 Recovery: 48 h Visual examination Resistance	Chip jumper: $50m\Omega$ max. No visible damage $\Delta R \le \pm (0.5\% + 0.05\Omega)$ Chip jumper: $50m\Omega$ max.					
8	Mounting	Sub-clause 4.31 Substrate material: Epoxide woven glass	onip jampon ooniaa maxi					
	Adhesion	Test substrate: Figure–3 Sub–clause 4.32 Force: 5 N (RMC1/32: 2N, RMC1/20: 3N) Duration: 10 s ± 1 s						
	Rapid change temperature	Visual examination Sub-clause 4.19 RMC1/32 Lower category temperature: -55 °C Upper category temperature: +125 °C RMC1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Lower category temperature: -55 °C Upper category temperature: +155 °C Duration of exposure at each temperature: 30 min. Number of cycles: 5 cycles.	No visible damage					
		Visual examination Resistance	No visible damage $\Delta R \le \pm (0.5\% + 0.05\Omega)$ Chip jumper: $50m\Omega$ max.					

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Table-4(3)

		1abl e 4 (3)	
No	Test items	Condition of test (JIS C 5201–1)	Performance requirements
9	Climatic sequence	Sub-clause 4.23	
	-Dry heat	Sub-clause 4.23.2	
		RMC1/32	
		Test temperature: +125 °C	
		RMC1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1:	
		Test temperature: +155 °C	
	Damp heat, cycle	Duration: 16 h Sub-clause 4.23.3	
	(12+12hour cycle)	Test method: 2	
	First cycle	Test temperature: 55 °C	
	1 list dyold	[Severity(2)]	
	-Cold	Sub-clause 4.23.4	
	Cold	Test temperature –55 °C	
		Duration: 2h	
	–Damp heat, cycle	Sub-clause 4.23.6	
	(12+12hour cycle)	Test method: 2	
	Remaining cycle	Test temperature: 55 °C	
		[Severity (2)]	
		Number of cycles: 5 cycles	
	–D.C. load	Sub-clause 4.23.7	
		The applied voltage shall be the rated voltage	
		or the limiting element voltage whichever is	
		the smaller.	
		Duration: 1 min.	No visible damage
		Visual examination Resistance	RMC1/32,1/20: $\Delta R \le \pm (3\%+0.1\Omega)$
		nesisiance	Others: $\Delta R \le \pm (2\% + 0.1\Omega)$
			Chip jumper: 50mΩ max.
10	Mounting	Sub-clause 4.31	
		Substrate material: Epoxide woven glass	
		(RMC1may use Alumina substrate.)	
		Test substrate: Figure–3	
	Fod		
	Endurance at 70 °C	Sub-clause 4.25.1	
		Ambient temperature: 70 °C ± 2 °C	
		Duration: 1000 h	
		The voltage shall be applied in cycles of 1.5 h on and 0.5 h off.	
		on and 0.5 n oir. The applied voltage shall be the rated voltage	
		or the limiting element voltage whichever is	
		the smaller.	
		Examination at 48 h , 500 h and	
		1000 h:	
		Visual examination	No visible damage
		Resistance	RMC1/32,1/20: $\Delta R \le \pm (3\%+0.1\Omega)$
			Others: $\Delta R \le \pm (2\% + 0.1\Omega)$
			Chip jumper: 50mΩ max.

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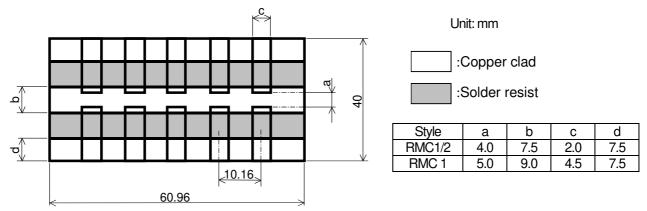
Table-4(4)

No	Test items	Condition of test (IIC C 5001 1)	Porformanco roquiromento
		Condition of test (JIS C 5201–1)	Performance requirements
11	Mounting	Sub-clause 4.31	
		Substrate material: Epoxide woven glass	
		Test substrate: Figure-3	
	Variation of resistance with	Sub-clause 4.8	As in Table–1
	temperature	RMC1/32:	
		–55 °C / +20 °C	
		+20 °C / +125°C	
		RMC1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1:	
		–55 °C / +20 °C	
		+20 °C / +155°C	
12	Mounting	Sub-clause 4.31	
		Substrate material: Epoxide woven glass	
		Test substrate: Figure-3	
	Damp heat, steady state	Sub-clause 4.24	
		Ambient temperature: 40 °C ± 2 °C	
		Relative humidity: 93 $\frac{+2}{-3}$ %	
		a) 1st group: without voltage applied.	
		b) 2nd group: The d. c. voltage shall be	
		applied continuously.	
		The voltage shall be accordance with	
		Sub-clause 4.24.2.1 b). without polarizing	
		voltage [4.24.2.1, c)]	Nie i delle de menero
		Visual examination	No visible damage
			Legible marking
		Resistance	RMC1/32,1/20: $\Delta R \le \pm (3\% + 0.1\Omega)$
			Others: $\Delta R \le \pm (2\% + 0.1\Omega)$
10	Discoursions (datail)	0.1.1.440	Chip jumper: $50m\Omega$ max.
13	Dimensions (detail)	Sub-clause 4.4.3	As in Table–3
	Mounting		
	Mounting	Sub-clause 4.31	
		Substrate material: Epoxide woven glass	
	Endurance at upper category	Test substrate: Figure–3	
	temperature	Sub-clause 4.25.3	
	temperature	RMC1/32:	
		Ambient temperature:125 °C ± 2 °C	
		RMC1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1:	
		Ambient temperature:155 °C ± 2 °C	
		Duration: 1000 h	
		Examination at 48 h, 500 h and 1000 h:	
		Visual examination	No visible damage
		Resistance	RMC1/32,1/20: $\Delta R \le \pm (3\% + 0.1\Omega)$
		i icoloidi ice	Others: $\Delta R \le \pm (2\% + 0.1\Omega)$
			Chip jumper: $50 \text{m}\Omega$ max.
			Onip jumper. 30msz max.

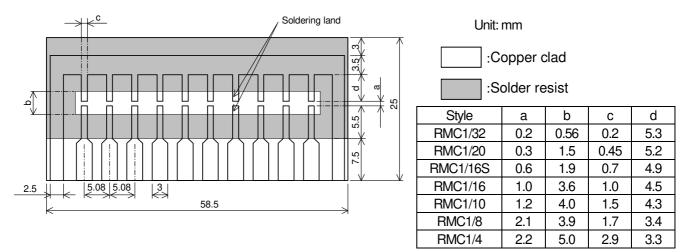
Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1

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8. Test substrate



RMC1/2, 1 TEST SUBSTRATE



RMC1/20, 1/16S, 1/16, 1/10, 1/8, 1/4 TEST SUBSTRATE Figure–3

Remark 1). Material: Epoxide woven glass

Thickness: 1.6mm Thickness of copper clad: 0.035mm

2). In the case of connection by connector, the connecting terminals are gold plated. However, the plating is not necessary when the connection is made by soldering.

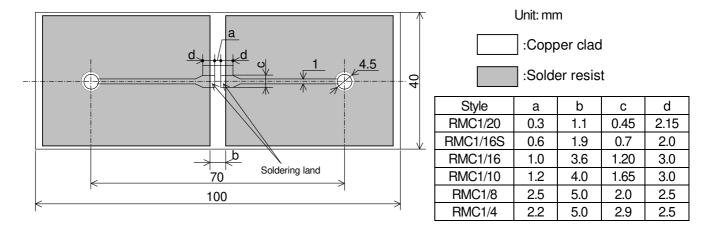
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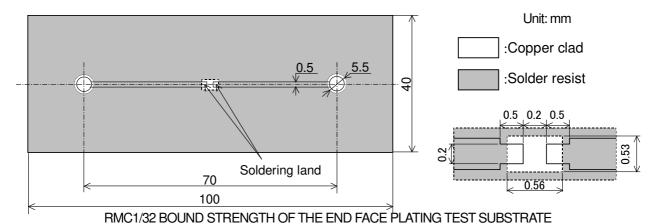
Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1

Unit: mm :Copper clad 4 :Solder resist Style b RMC1/2 3.0 4.0 7.5 b RMC₁ 5.0 9.0 4.0 100

RMC1/2, 1 BOUND STRENGTH OF THE END FACE PLATING TEST SUBSTRATE



RMC1/20,1/16S,1/16,1/10,1/8,1/4 BOUND STRENGTH OF THE END FACE PLATING TEST SUBSTRATE

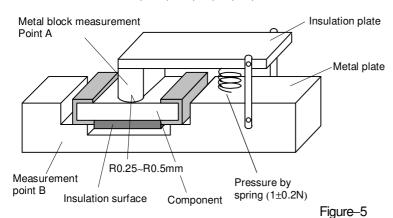


Remark 1). Material: Epoxide woven glass

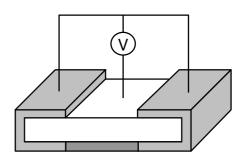
Thickness: 1.6mm Thickness of copper clad: 0.035mm Figure-4

RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Page: 14/18

· RMC1/16S,1/16,1/10,1/8,1/4,1/2,1



· RMC1/32, 1/20



9. Taping

- 9.1 Applicable documents JIS C 0806-3: 2014, EIAJ ET-7200C: 2010
- 9.2 Taping dimensions
- 9.2.1 Press pocket taping (Paper taping, 8mm width, 2mm pitches)

Taping dimensions shall be in accordance with Figure-6 and Table-5.

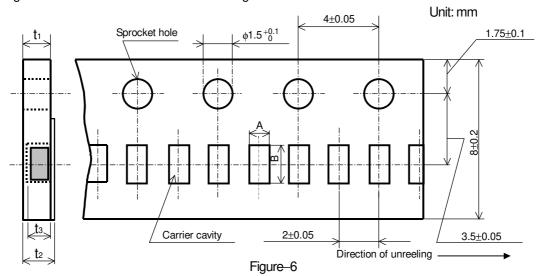
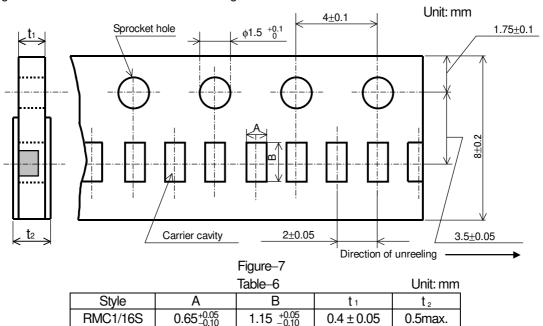


Table-5 Unit: mm A В Style t 1 t₂ RMC1/32 0.24±0.03 0.45±0.03 0.31±0.03 0.36±0.03 0.15±0.02 RMC1/20 0.37±0.05 0.67±0.05 0.42±0.03 0.45±0.05 0.27±0.02

RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Page: 15/18

9.2.2 Paper taping (8mm width, 2mm pitches)

Taping dimensions shall be in accordance with Figure-7 and Table-6.



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9.2.3 Paper taping (8mm width, 4mm pitches)

Taping dimensions shall be in accordance with Figure-8 and Table-7.

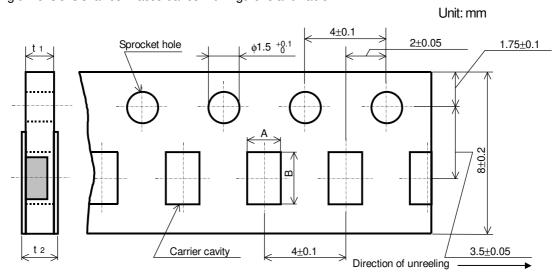


Figure-8

		Unit: mm		
Style	Α	В	t 1	t 2
RMC1/16	1.15±0.15	1.9±0.2	0.6±0.1	0.8max.
RMC1/10	1.65±0.15	2.5±0.2	0.8±0.1	1.0max.
RMC1/8	2.00±0.15	3.6±0.2	0.0±0.1	1.UITIAX.

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Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1

9.2.4 Embossed taping dimensions shall be in accordance with Figure-9 and Table-8.

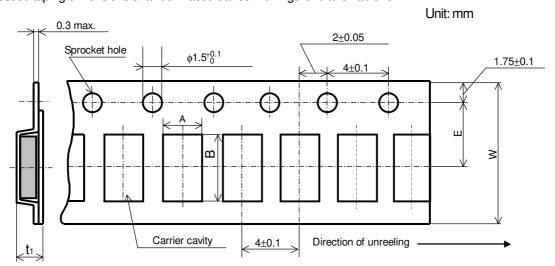


Figure-9

	Unit: mm	1				
Style	Α	В	W	E	t 1	
RMC1/4	2.85±0.20	3.5±0.2	8.0±0.3	3.5±0.05	1.0±0.2	
RMC1/2	3.1±0.2	5.5±0.2	10000	E E LO 0E	1 110 15	
RMC 1	3.6±0.2	6.9±0.2	12.0±0.3	5.5±0.05	1.1±0.15	

- 1). The cover tapes shall not cover the sprocket holes.
- 2). Tapes in adjacent layers shall not stick together in the packing.
- 3). Components shall not stick to the carrier tape or to the cover tape.
- 4). Pitch tolerance over any 10 pitches ±0.2mm.
- 5). The peel strength of the top cover tape shall be with in 0.1N to 0.5N on the test method as shown in the following RMC1/32,1/20: Figure–10, RMC1/16S, 1/16, 1/10, 1/8: Figure–11, RMC1/4, 1/2, 1: Figure–12.
- 6). When the tape is bent with the minimum radius for RMC1/32, 1/20, 1/16S, 1/16, 1/10,1/8, 1/4: 25 mm, or RMC1/2, 1: 30 mm, the tape shall not be damaged and the components shall maintain their position and orientation in the tape.
- 7). In no case shall there be two or more consecutive components missing.

 The maximum number of missing components shall be one or 0.1%, whichever is greater.
- 8). The resistors shall be faced to upward at the over coating side in the carrier cavity.

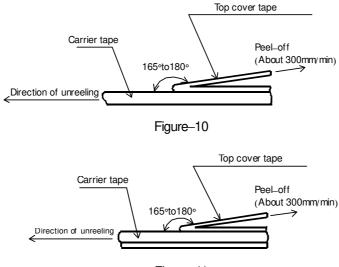
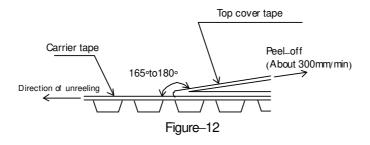


Figure-11

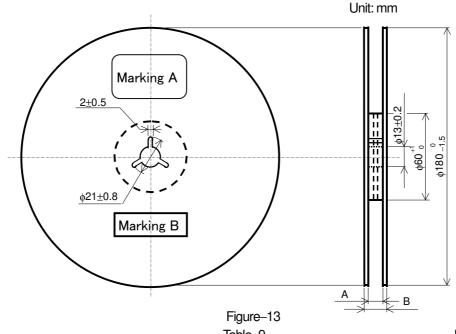
FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1

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9.3 Reel dimension

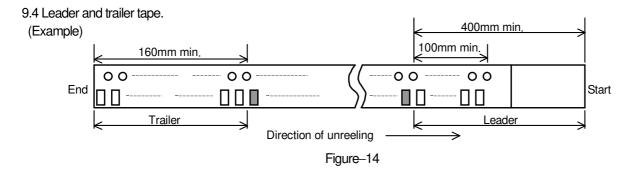
Reel dimensions shall be in accordance with the following Figure-13 and Table-9. Plastic reel (Based on EIAJ ET-7200C)



Table_9 I Init: mm

lable		Oriit. Illiill	
Style	Α	В	Note
RMC1/32, 1/20, 1/16S, 1/16, 1/10, 1/8, 1/4	9 +1.0	11.4±1.0	Injection molding
NIVIC 1/32, 1/20, 1/103, 1/10, 1/10, 1/10, 1/4	9 0	13±1.0	Vacuum forming
RMC1/2, 1	13 +1.0	17±1.0	Vacuum forming

Note: Marking label shall be marked on a place of Marking A or two place of marking A and B.



KAMAYA OHM

No: RMC-K-HTS-0006 /13

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE

RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Page: 18/18

10. Marking on package

The label of a minimum package shall be legibly marked with follows.

10.1 Marking A

(1) Classification

(Style, Temperature coefficient of resistance, Rated resistance, Tolerance on rated resistance, Packaging form)

(2) Quantity (3) Lot number (4) Manufacturer's name or trade mark (5) Others

10.2 Marking B (KAMAYA Control label)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kamaya:

RMC1/2-2R32FTE RMC1/2-2R37FTE RMC1/2-2R40FTE RMC1/2-2R43FTE RMC1/2-2R49FTE RMC1/2-2R55FTE RMC1/2-2R61FTE RMC1/2-2R67FTE RMC1/2-2R70FTE RMC1/2-2R74FTE RMC1/2-2R7JTE RMC1/2-2R80FTE RMC1/2-2R87FTE RMC1/2-2R94FTE RMC1/2-300JTE RMC1/2-302JTE RMC1/2-303JTE RMC1/2-304JTE RMC1/2-305JTE RMC1/2-333JTE RMC1/2-334JTE RMC1/2-335JTE RMC1/2-361JTE RMC1/2-362JTE RMC1/2-363JTE RMC1/2-364JTE RMC1/2-365JTE RMC1/2-390JTE RMC1/2-393JTE RMC1/2-394JTE RMC1/2-395JTE RMC1/2-3R00FTE RMC1/2-3R01FTE RMC1/2-3R09FTE RMC1/2-3R0JTE RMC1/2-3R16FTE RMC1/2-3R24FTE RMC1/2-3R30FTE RMC1/2-3R32FTE RMC1/2-3R3JTE RMC1/2-3R40FTE RMC1/2-3R48FTE RMC1/2-3R57FTE RMC1/2-3R60FTE RMC1/2-3R65FTE RMC1/2-3R6JTE RMC1/2-3R74FTE RMC1/2-3R83FTE RMC1/2-3R90FTE RMC1/2-3R92FTE RMC1/2-3R9JTE RMC1/2-430JTE RMC1/2-431JTE RMC1/2-432JTE RMC1/2-433JTE RMC1/2-434JTE RMC1/2-435JTE RMC1/2-471JTE RMC1/2-473JTE RMC1/2-474JTE RMC1/2-475JTE RMC1/2-4R02FTE RMC1/2-4R12FTE RMC1/2-4R22FTE RMC1/2-4R30FTE RMC1/2-4R32FTE RMC1/2-4R3JTE RMC1/2-4R42FTE RMC1/2-4R53FTE RMC1/2-4R64FTE RMC1/2-4R70FTE RMC1/2-4R75FTE RMC1/2-4R7JTE RMC1/2-4R87FTE RMC1/2-4R99FTE RMC1/2-511JTE RMC1/2-512JTE RMC1/2-513JTE RMC1/2-514JTE RMC1/2-515JTE RMC1/2-560JTE RMC1/2-563JTE RMC1/2-564JTE RMC1/2-565JTE RMC1/2-5R10FTE RMC1/2-5R11FTE RMC1/2-5R1JTE RMC1/2-5R23FTE RMC1/2-5R36FTE RMC1/2-5R49FTE RMC1/2-5R60FTE RMC1/2-5R62FTE RMC1/2-5R6JTE RMC1/2-5R76FTE RMC1/2-5R90FTE RMC1/2-620JTE RMC1/2-621JTE RMC1/2-622JTE RMC1/2-623JTE RMC1/2-624JTE