No: RMC-K-HTS-0006 /11

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 Page: 1/18

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.

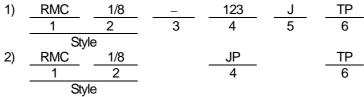
1.2 Applicable documents

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

В	±0.1%
D	±0.5%
F	±1%
G	±2%
J	±5%

6 Packaging form 1. Scope

В	Bulk (loose package)
PA	Press pocket taping
TH	Paper toping
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)

	Datail		lable	-1(1 <i>)</i> 	Destant					
Style	Rated dissipation (W)		re coefficient of ce (10 ⁻⁶ /°C)	Rated resistance range (Ω)	Preferred number series for resistors	Tolerance on rated resistance				
	, ,		. ,	/			±200	100~1M		
			±300	10~91	E24, 96	F(±1%)				
DN 104 /00	0.00	Ota a dand	+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		B(±0.1%) D(±0.5%)				
			±200	10~10M	E24, 96	,				
			+350~-100	4.02~9.76	,	F(±1%)				
RMC1/20	0.05	Standard	+600~-200	1~3.92		,				
			±200	10~1M		G(±2%)				
			±200	10~10M	F04	, ,				
			+350~-100	4.3~9.1	E24	J(±5%)				
			+600~-200	1~3.9		,				
		К	±100	10~1M	E24, 96	B(±0.1%) D(±0.5%)				
		Standard	±200	1.02M~3.3M		D(±0.5%)				
		K	±100	10~1M		F(±1%)				
RMC1/16S	0.1	0.1 Standard	±200	1.02M~10M						
			+500~-200	1~9.76		, ,				
			±200	10~10M	E24	G(±2%)				
			±200	10~10M		1(+50()				
			+500~-200	1~9.1		J(±5%)				
		К	±100	10~3.3M	E24, 96	B(±0.1%) D(±0.5%)				
			±100	10~10M		F(140/)				
DMC4/4C	0.4		+500~-200	1~9.76		F(±1%)				
RMC1/16	0.1		±200	10~10M		C(100()				
		Standard	+500~-200	1.0~9.1	E24	G(±2%)				
			±200	10~22M	⊏24	1/+50/				
			+500~-200	1.0~9.1		J(±5%)				
		К	±100	10~2.2M		B(±0.1%) D(±0.5%)				
		Standard	±200	2.21M~3.3M		D(±0.5%)				
		K	±100	10~2.2M	E24,96	, ,				
PMC1/10	0.125		±200	2.21M~10M		F(±1%)				
RMC1/10	0.120		+500~-200	1.0~9.76		(,				
			±200	10~10M		0(:550)				
		Standard	+500~-200	1.0~9.1	F 0.	G(±2%)				
			±200	10~22M	E24					
			+500~-200	1.0~9.1	1	J(±5%)				

RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Page: 3/18

Table-1(2)

Style	Rated dissipation (W)	Temperature coefficient of resistance (10°/°C)		Rated resistance range (Ω)	Preferred number series for resistors	Tolerance on rated resistance	
		К		10~1M	E24,96	B(±0.1%) D(±0.5%) F(±1%)	
			±200	1.02M~10M	ŕ	F(140/)	
RMC1/8	0.25		+500~-200	1.0~9.76		F(±1%)	
		Standard	±200	10~10M		C(±20/)	
		Stariuaru	+500~-200	1.0~9.1	E24	G(±2%)	
			±200	10~24M	L24	1/450/ \	
			+500~-200	1.0~9.1		J(±5%)	
		К	K ±100	±100	10~1M	E24,96	B(±0.1%) D(±0.5%) F(±1%)
DNAC4/4	0.5	0.5	±200	1.02M~10M		F(±1%)	
RMC1/4	0.5		+500~-200	1.0~9.76			
		Standard	±200	10~1M	E24	G(±2%)	
			±200	10~22M		J(±5%)	
			+500~-200	1.0~9.1			
		K	±100	10~1M	E24, 96	F(±1%)	
			+500~-200	1.0~9.76	L24, 30	1 (±170)	
RMC1/2	0.75	Standard	±200	10~1M		G(±2%)	
		Otaridard	1200	10~22M	E24	J(±5%)	
			+500~-200	1.0~9.1		3(±370)	
		K	±100	10~1M	E24, 96	F(±1%)	
			+500~-200	1.0~9.76	L27, 50	1 (±170)	
RMC1	1.0	Standard	±200	10~1M		G(±2%)	
		Stariuaru ±200	1200	10~22M	E24	1(+5%)	
			+500~-200	1.0~9.1		J(±5%)	

Style	Limiting element voltage (V)	Isolation voltage (V)	Category temperature range (°C)
RMC1/32	15	50	-55~+125
RMC1/20	25	50	
RMC1/16S	50	100	
RMC1/16	50	100	
RMC1/10	150		<i>–</i> 55∼+155
RMC1/8			-55-+155
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.

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

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 mΩ max. -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.

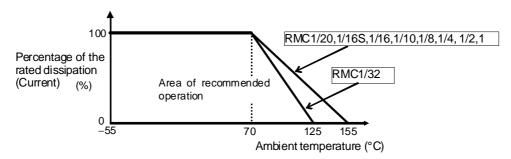


Figure-1 Derating curve

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 · R

P : Rated dissipation (W)

R : Rated resistance (Ω)

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.

RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1 Page: 5/18

4. Packaging form

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

Table-2

Symbol	Pa	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 widin, zmin pilches	15,000 pcs.	RMC1/20
TH	Paper taping	8mm width, 2mm pitches	10,000 pcs.	RMC1/16S,1/16
TP	Paper taping	Paper taping 8mm width, 4mm pitches		RMC1/16, 1/10, 1/8
TE	Embossed taping	8mm width, 4mm pitches	4,000 pcs.	RMC1/4
16		12mm width, 4mm pitches		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.

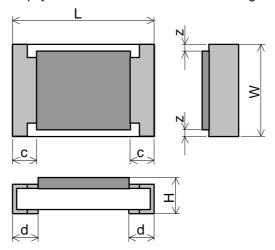


Figure-2

Table-3 Unit: mm

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

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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 should 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	Application
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	$562 \times 10^3 [\Omega] \rightarrow 562 [k\Omega]$	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	$102\times10^2 [\Omega] \rightarrow 10.2 [k\Omega]$	E96
No marking	51X	$332\times10^{-1} [\Omega] \rightarrow 33.2 [\Omega]$	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		

6.2.2 Symbol of multipliers

158

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

412

60

665

80

40

6.3 Marking example of Jumper Chip

20

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

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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)

NIa	No. Test items Condition of test (JIS C 5201–1) Performance requirements						
No.		Condition of test (JIS C 5201–1)	Performance requirements				
1	Visual examination	Sub-clause 4.4.1	As in 4.4.1				
		Checked by visual examination.	The marking shall be legible, as				
	D'accession	0.1.1	checked by visual examination.				
2	Dimension	Sub-clause 4.4.2	As specified in Table-3 of this				
	Resistance	Cub. slaves 4.5	specification. As in 4.5.2				
	Resistal ice	Sub-clause 4.5	The resistance value shall				
			correspond with the rated resistance				
			taking into account the specified				
			tolerance.				
			Chip jumper: $50\text{m}\Omega$ max.				
3	Voltage proof	Sub-clause 4.7	, , ,				
	0 1	Method: 4.6.1.4(See Figure–5)	No breakdown or flash over				
		Test voltage: Alternating voltage with a peak					
		value of 1.42 times the					
		insulation voltage.					
		Duration: $60 \text{ s} \pm 5 \text{ s}$					
		Insulation resistance	R≥1GΩ				
		Test voltage: Insulation voltage					
	Oal Israel 20	Duration: 1 min.	A - ' - 447 45				
4	Solderability	Sub-clause 4.17	As in 4.17.4.5 The terminations shall be covered				
		Without ageing Flux: The resistors shall be immersed in a	with a smooth and bright solder				
		non-activated soldering flux for 2s.	coating.				
		Bath temperature: 235 °C ± 5 °C	coau igi				
		Immersion time: 2 s ± 0.5 s					
5	Mounting	Sub-clause 4.31					
	· ·	Substrate material: Epoxide woven glass					
		Test substrate: Figure–3					
	Overload	Sub-clause 4.13					
	(in the mounted state)	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	No visible damage				
		Visual examination	$\Delta R \le \pm (1\% + 0.05\Omega)$				
		Resistance	Chip jumper: $50m\Omega$ max.				
	Solvent resistance of the	Sub-clause 4.30	Legible marking				
	marking	Solvent: 2-propanol					
	_	Solvent temperature: 23 °C ± 5 °C					
		Method 1					
		Rubbing material: cotton wool					
		Without recovery					

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Table 4(2)

Table—4(2)						
No	Test items	Condition of test (JIS C 5201-1)	Performance requirements			
6	Mounting Bound strength of the end face	Sub-clause 4.31 Substrate material: Epoxide woven glass Test substrate: Figure–4				
	plating	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: 50mΩ 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. $\Delta R \leq \pm (0.5\% + 0.05\Omega)$			
	Component solvent resistance	Sub-clause 4.29 Solvent: 2-propanol Solvent temperature: 23 °C ± 5 °C Method 2 Recovery: 48 h Visual examination	Chip jumper: $50 \text{m}\Omega$ max. No visible damage			
		Resistance	$\Delta R \le \pm (1\% + 0.05\Omega)$ Chip jumper: $50m\Omega$ max.			
8	Mounting Adhesion	Sub-clause 4.31 Substrate material: Epoxide woven glass Test substrate: Figure–3				
	Rapid change temperature	Sub-clause 4.32 Force: 5 N (RMC1/32: 2N, RMC1/20: 3N) Duration: 10 s ± 1 s 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.	No visible damage			
		Number of cycles: 5 cycles. 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)

		1able-4(3)	
No	Test items	Condition of test (JIS C 5201–1)	Performance requirements
9	Climatic sequence —Dry heat	Sub-clause 4.23 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 (12+12hour cycle) First cycle	Duration: 16 h Sub-clause 4.23.3 Test method: 2 Test temperature: 55 °C [Severity(2)] Sub-clause 4.23.4	
	-Damp heat, cycle (12+12hour cycle) Remaining cycle -D.C. load	Test temperature –55 °C Duration: 2h Sub–clause 4.23.6 Test method: 2 Test temperature: 55 °C [Severity (2)] Number of cycles: 5 cycles 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. Visual examination Resistance	No visible damage $\Delta R \le \pm (2\%+0.1\Omega)$ Chip jumper: $50m\Omega$ max.
10	Mounting	Sub-clause 4.31 Substrate material: Epoxide woven glass (RMC1may use Alumina substrate.) Test substrate: Figure-3	
	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. 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 Resistance	No visible damage $\Delta R \le \pm (2\% + 0.1\Omega)$ Chip jumper: $50 \text{m} \Omega$ max.

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Table-4(4)

No	Test items	Condition of test (JIS C 5201–1)	Performance requirements
11	Mounting	Sub-clause 4.31 Substrate material: Epoxide woven glass	
	Variation of resistance with temperature	Test substrate: Figure–3 Sub–clause 4.8 RMC1/32:	As in Table–1
		–55 °C / +20 °C +20 °C / +155°C	
12	Mounting Damp heat, steady state	Sub-clause 4.31 Substrate material: Epoxide woven glass Test substrate: Figure–3 Sub-clause 4.24 Ambient temperature: 40 °C ± 2 °C	
		Relative humidity: 93 ½ % 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)] Visual examination Resistance	No visible damage Legible marking $\Delta R \le \pm (2\%+0.1\Omega)$
13	Dimensions (detail)	Sub-clause 4.4.3	Chip jumper: 50mΩ max. As in Table–3
	Mounting Endurance at upper category temperature	Sub-clause 4.31 Substrate material: Epoxide woven glass Test substrate: Figure-3 Sub-clause 4.25.3 RMC1/32:	
		Ambient temperature: 125 °C ± 2 °C RMC1/20,1/16S,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 $\Delta R \leq \pm \ (2\% + 0.1\Omega)$ Chip jumper: $50 \mathrm{m}\Omega$ max.

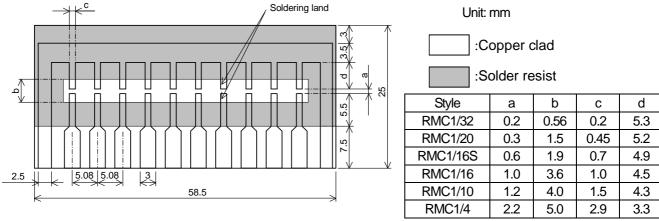
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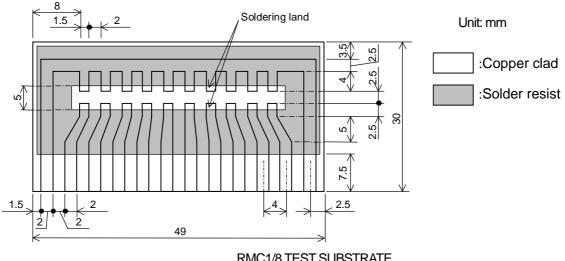
60.96

8. Test substrate Unit: mm :Copper clad :Solder resist Style b а С d **₽** RMC1/2 4.0 7.5 2.0 7.5 RMC 1 5.0 9.0 4.5 7.5 _10.16、

RMC1/2, 1 TEST SUBSTRATE



RMC1/20, 1/16S, 1/16, 1/10 1/4 TEST SUBSTRATE



RMC1/8 TEST SUBSTRATE Figure-3

Remark 1). Material: Epoxide woven glass

Thickness: 1.6mm Thickness of copper clad: 0.035mm

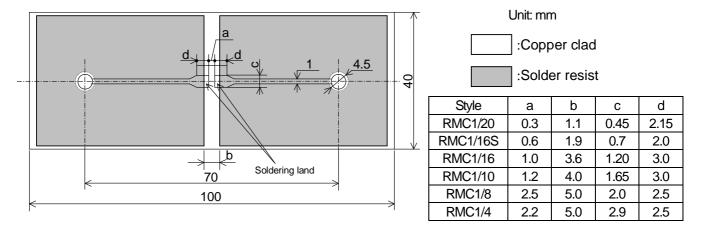
2). In the case of connection by connector, the connecting terminals are gold plated. However, the plating is not necessary when the connection is made by soldering.

Page:

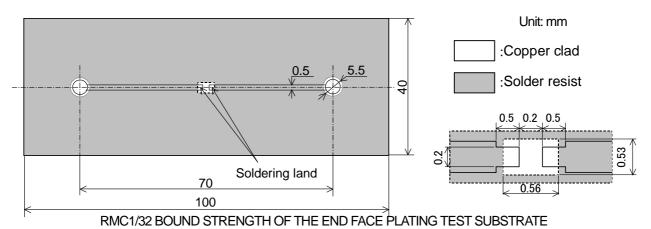
FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1

Unit: mm :Copper clad :Solder resist b Style RMC1/2 4.0 7.5 3.0 b RMC 1 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



Thickness: 1.6mm Thickness of copper clad: 0.035mm

Figure 4

Page:

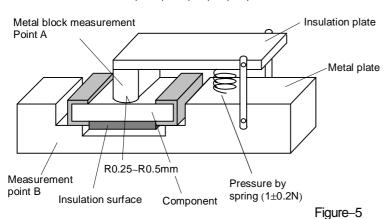
/11

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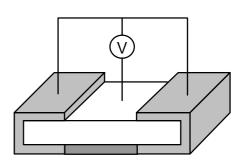
Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE

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

· 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: 2001
- 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.

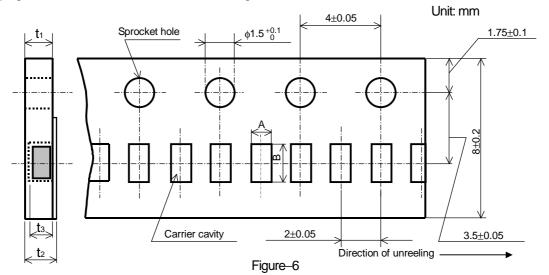


Table-5 Unit: mm В Style Α t₁ t₂ t₃ RMC1/32 0.24 ± 0.03 0.45 ± 0.03 0.31 ± 0.03 0.36±0.03 0.15±0.02 RMC1/20 0.37±0.05 0.67±0.05 0.42±0.03 0.45±0.05 0.27±0.02

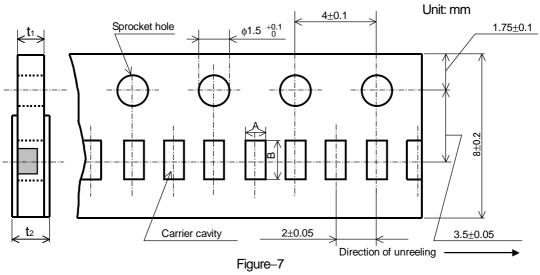
No: RMC-K-HTS-0006

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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

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

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



	Unit: mm			
Style	Α	В	t 1	t ₂
RMC1/16S	$0.65^{+0.05}_{-0.10}$	1.15 ^{+0.05} _{-0.10}	0.4 ± 0.05	0.5max.
RMC1/16	1.15±0.15	1.9±0.2	0.6±0.1	0.8max.

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

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

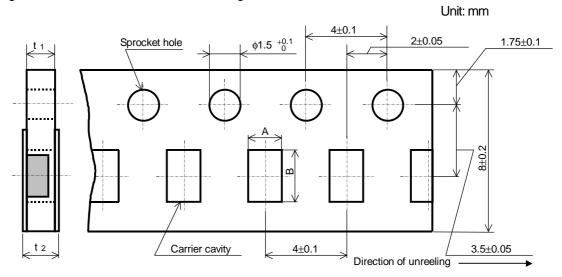


Figure-8

		0		
	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	1.0Hax.

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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.

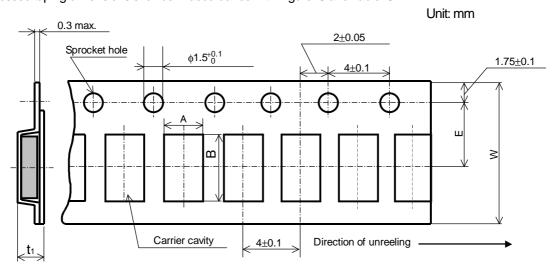


Figure-9

_		Unit: mm				
	Style	Α	В	W	Ш	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	120.02	5 5 LO 05	1 1 . 0 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.

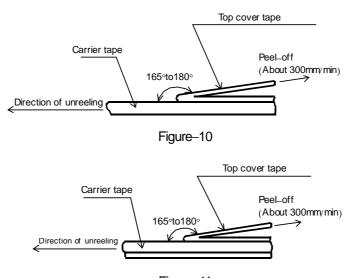
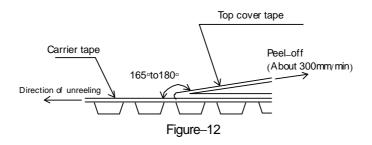


Figure-11

Page:

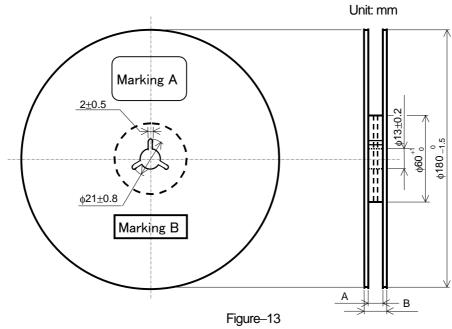
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Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE RMC1/32,1/20,1/16S,1/16,1/10,1/8,1/4,1/2,1



9.3 Reel dimension

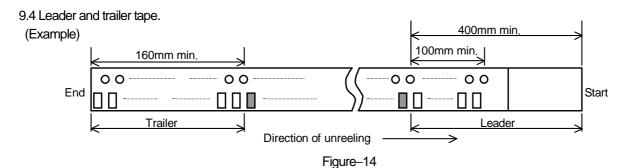
Reel dimensions shall be in accordance with the following Figure–13 and Table–9. Plastic reel (Based on EIAJ ET–7200C)



Table–9 Unit: mm

Table	5		Offic Hill
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
100 1/32, 1/20, 1/103, 1/10, 1/10, 1/6, 1/4	9	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 /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 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:

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RMC1/8K5900FTP RMC1/8K5901BTP RMC1/8K5901DTP RMC1/8K5901FTP RMC1/8K5902BTP
RMC1/8K5902DTP RMC1/8K5902FTP RMC1/8K5903BTP RMC1/8K5903DTP RMC1/8K5903FTP
RMC1/8K59R0BTP RMC1/8K59R0DTP RMC1/8K59R0FTP RMC1/8K6040BTP RMC1/8K6040DTP
RMC1/8K6040FTP RMC1/8K6041BTP RMC1/8K6041DTP RMC1/8K6041FTP RMC1/8K6042BTP
RMC1/8K6042DTP RMC1/8K6042FTP RMC1/8K6043BTP
                                             RMC1/8K6043DTP RMC1/8K6043FTP
RMC1/8K60R4BTP RMC1/8K60R4DTP
                              RMC1/8K60R4FTP
                                              RMC1/8K6190BTP RMC1/8K6190DTP
RMC1/8K6190FTP RMC1/8K6191BTP RMC1/8K6191DTP RMC1/8K6191FTP RMC1/8K6192BTP
RMC1/8K6192DTP RMC1/8K6192FTP
                              RMC1/8K6193BTP
                                             RMC1/8K6193DTP RMC1/8K6193FTP
RMC1/8K61R9BTP RMC1/8K61R9DTP RMC1/8K61R9FTP RMC1/8K6200BTP RMC1/8K6200DTP
RMC1/8K6201BTP RMC1/8K6201DTP
                              RMC1/8K6201FTP RMC1/8K6202BTP RMC1/8K6202DTP
RMC1/8K6202FTP
               RMC1/8K6203BTP
                              RMC1/8K6203DTP
                                             RMC1/8K6203FTP RMC1/8K62R0BTP
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RMC1/8K6341BTP RMC1/8K6341DTP
                              RMC1/8K6341FTP
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RMC1/8K6342FTP
              RMC1/8K6343BTP
                              RMC1/8K6343DTP
                                             RMC1/8K6343FTP RMC1/8K63R4BTP
RMC1/8K63R4DTP RMC1/8K63R4FTP RMC1/8K6490BTP RMC1/8K6490DTP RMC1/8K6490FTP
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                              RMC1/8K6491FTP
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RMC1/8K6492FTP
               RMC1/8K6493BTP
                              RMC1/8K6493DTP
                                             RMC1/8K6493FTP RMC1/8K64R9BTP
RMC1/8K64R9DTP
               RMC1/8K6650BTP
                              RMC1/8K6650DTP
                                             RMC1/8K6650FTP
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                                             RMC1/8K66R5BTP RMC1/8K66R5DTP
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