KAMAYA OHM

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.

釜屋電機株式會社
KAMAYA ELECTRIC CO., LTD.
Hokkaido Research Center
Approval by: T. Sannomiya
Drawing by: M. Shibuya

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)

RMC	1/8	–	123	J	TP
1	2	3	4	5	6
Style					

2)

RMC	1/8		JP		TP
1	2		4		6
Style					

1 Fixed thick film chip resistors; rectangular type
2 Rated dissipation and / or dimension — Style
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%

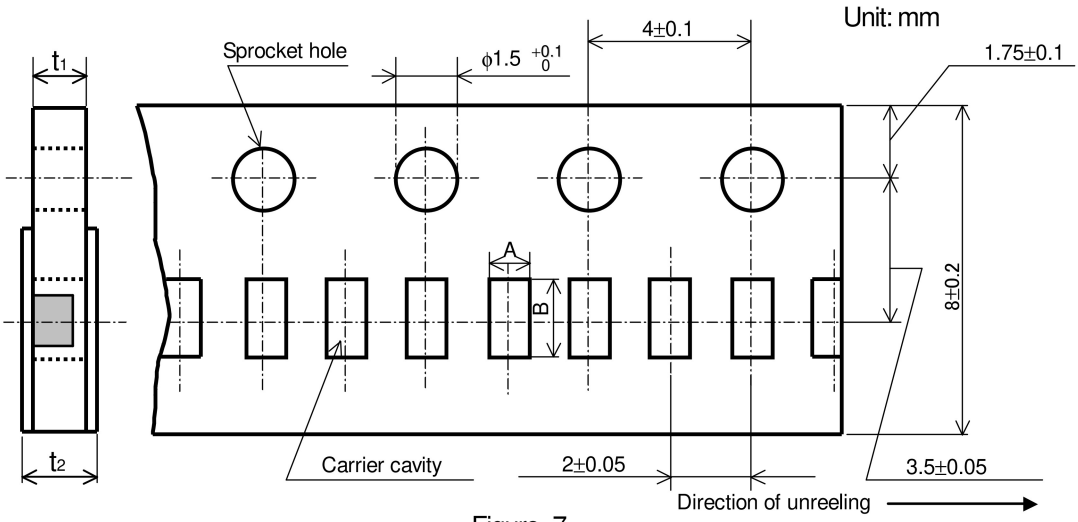
6 Packaging form 1. Scope

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

RMC1/20	0.37±0.05	0.67±0.05	0.42±0.03	0.45±0.05	0.27±0.02

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

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



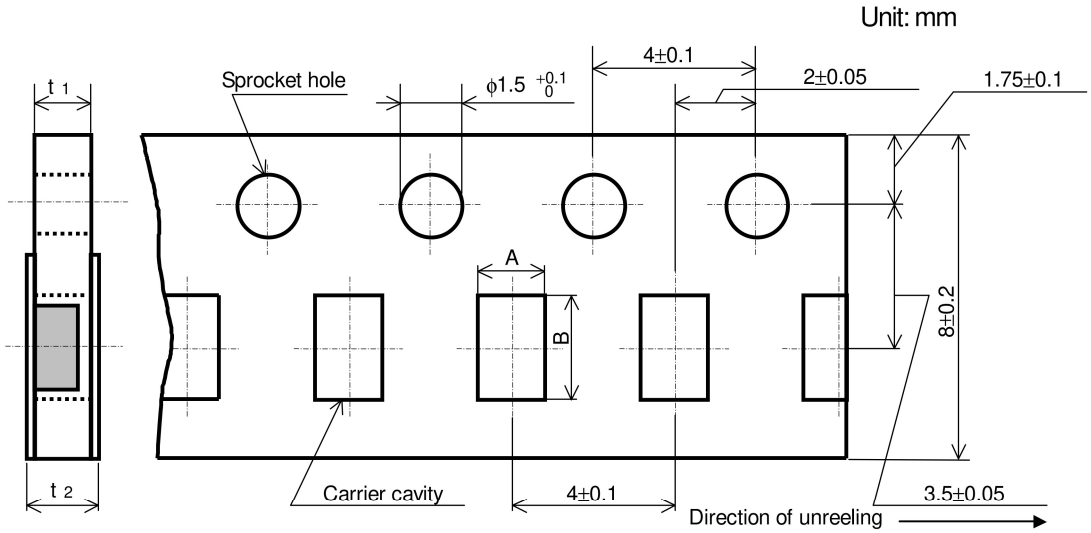
Figure–7

Table–6 Unit: mm

Style	A	B	t_1	t_2
RMC1/16S	$0.65^{+0.05}_{-0.10}$	$1.15^{+0.05}_{-0.10}$	0.4 ± 0.05	0.5max.

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

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



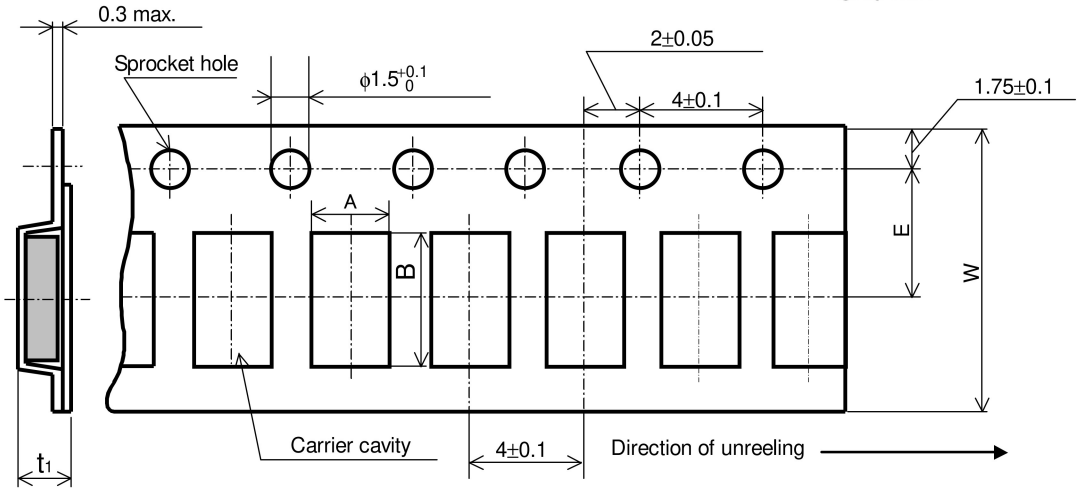
Figure–8

Table–7 Unit: mm

Style	A	B	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		

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

Unit: mm

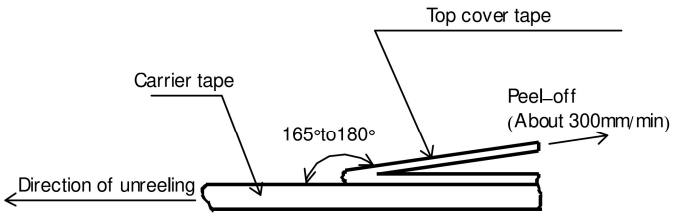


Figure–9

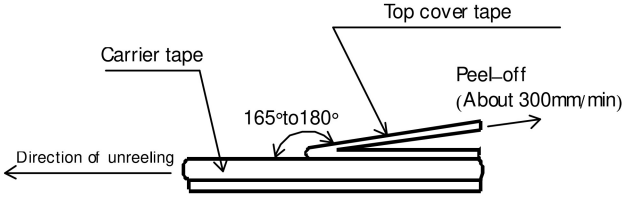
Table–8 Unit: mm

Style	A	B	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	12.0±0.3	5.5±0.05	1.1±0.15
RMC 1	3.6±0.2	6.9±0.2			

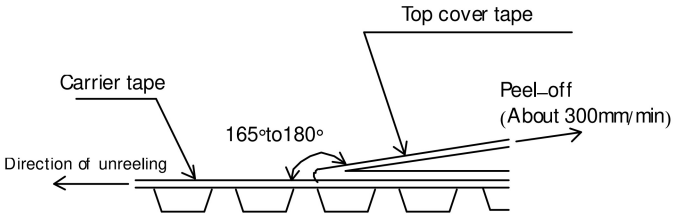
1). The cover tapes shall not cover the sprocket holes.
2). Tapes in adjacent layers shall not stick together in the packing.
3). Components shall not stick to the carrier tape or to the cover tape.
4). Pitch tolerance over any 10 pitches ±0.2mm.
5). The peel strength of the top cover tape shall be with 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–10



Figure–11



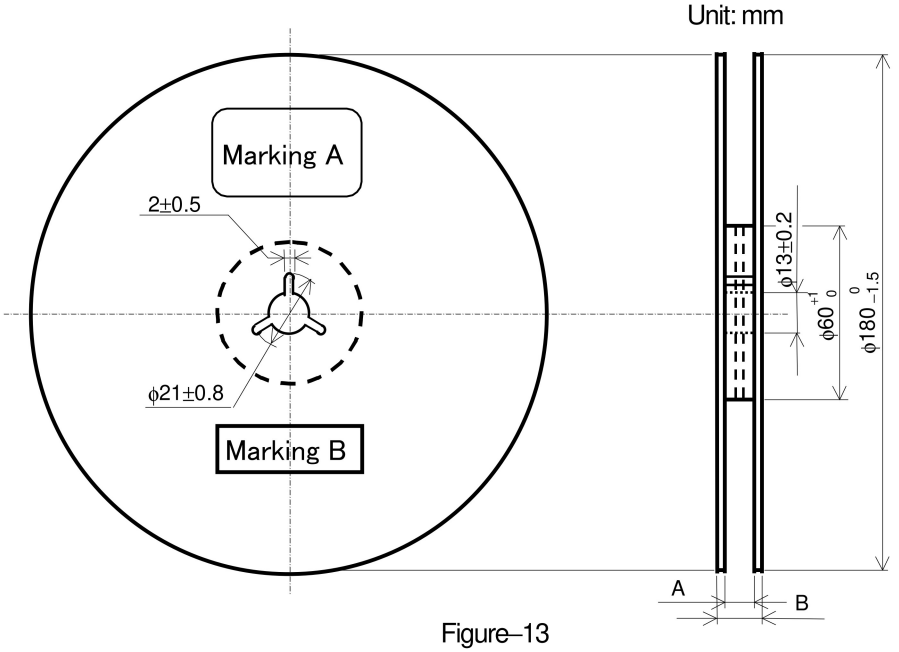
Figure–12

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)

Unit: mm



Figure–13

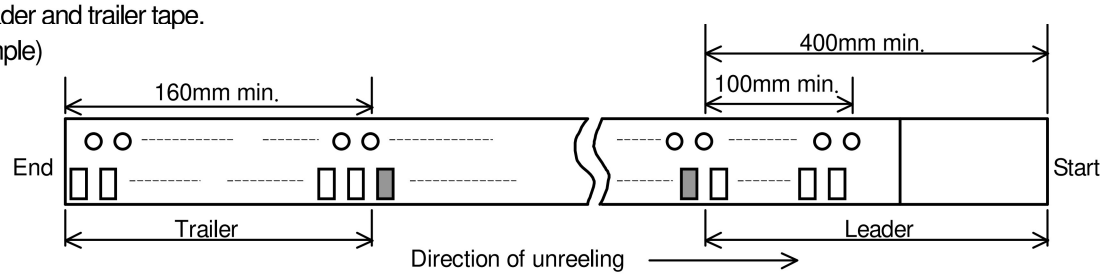
Table–9 Unit: mm

Style	A	B	Note
RMC1/32, 1/20, 1/16S, 1/16, 1/10, 1/8, 1/4	9 $^{+1.0}_{0}$	11.4±1.0	Injection molding
		13±1.0	Vacuum forming
RMC1/2, 1	13 $^{+1.0}_{0}$	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.

9.4 Leader and trailer tape.

(Example)



Figure–14

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)