No.:       RMGW-K-HTS-0002         Date:       2025, 1, 7         Date:       Date:         Date:       Date:         Date:       2025, 1, 7	No.:       RMG         Date:       Date:         Data sheet       Data sheet         Title:       FIXED THICK FILM CHIP RESISTORS; RECTANGULA ANTI-SULFURATION         Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         RoHS COMPLIANCE ITEM	2025. 1. 7
Title:       FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION         Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         Network       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	Title:       FIXED THICK FILM CHIP RESISTORS; RECTANGULA         ANTI-SULFURATION         Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         RoHS COMPLIANCE ITEM	
Title:       FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION         Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         AEC-Q200 qualified         Nder Order Stock conditions         Temperature: +5°C ~ +35°C         Relative humidity: 25% ~ 75%         Te 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	Title:       FIXED THICK FILM CHIP RESISTORS; RECTANGULA         ANTI-SULFURATION         Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         RoHS COMPLIANCE ITEM	
Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         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	Style:       RMGW06,10,16,20,32,35,50,63         AEC-Q200 qualified         RoHS COMPLIANCE ITEM	
AEC-Q200 qualified         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	AEC-Q200 qualified RoHS COMPLIANCE ITEM	IR TYPE
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	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		
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		
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	Thategori and / anamony 1100	
<ul> <li>time without notice</li> <li>If you have any questions or a Purchasing Specification for any quality agreement is necessary, please contact our sales staff.</li> </ul>	Temperature: +5°C ~ +35°C Relative humidity: 25% ~ 75% The period of guarantee: Within 2 year from shipment by the c Solderability shall be satisfied. • Product specification contained in this data sheet are sul time without notice • If you have any questions or a Purchasing Specification f	bject to change a

#### No: RMGW-K-HTS-0002 /2

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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### 1. Scope

1.1 This data sheet covers the detail requirements for fixed thick film chip resistors; rectangular type & anti-sulfuration,, style of RMGW06,10,16,20,32,35,50,63.

#### 1.2 Applicable documents

JIS C 5201-1: 2011, IEC60115-1: 2008, AEC-Q200 Rev.D

#### 2. Classification

(Example)

Type designation shall be the following form.

		0					
1)	RMGW	16	K	123	J	TP	
	1	2	3	4	5	6	
	Style	;					
2)	RMGW	16		JP		TP	
	1	2		4		6	
	Style	)					

### 1 Fixed thick film chip resistors; rectangular type & anti-sulfuration

– Style

#### 2 Rated dissipation and / or dimension 3 Temperature coefficient of resistance

K		±100×10 <sup>-</sup> 6/ ℃
–(Das	h)	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%
J	±5%

6 Packaging form

PA	Press pocket taping			
TH	Papar taping			
TP	Paper taping			
TE	Embossed taping			

Product specification contained in this data sheet are subject to change at any time without notice.

# Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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### 3. Rating

The ratings shall be in accordance with Table-1.

3.1 Resistor

			Table-	·1(1)			
Style	Rated dissipation (W)		ure coefficient of nce (10° / °C)	Rated resistance range ( $\Omega$ )	Preferred number series for resistors	Tolerance on rated resistance	
			±200	10~1M			
		Standard	+350~-100	4.02~9.76	E24, 96	F(±1%)	
			+600~-200	1~3.92			
RMGW06	0.05		±200	10~1M			
		Standard	+350~-100	4.3~9.1	E24	J(±5%)	
			+600~-200	1~3.9		0(±070)	
		K	±100	10~1M			
				1.02M~10M	E24, 96	D(±0.5%), F(±1%)	
		Standard	±200	1~9.76	, ==	F(±1%)	
RMGW10	0.1	K	±100	10~1M			
				1.1M~10M	E24	E24	J(±5%)
		Standard	±200	1.0~9.1		, , ,	
			К	±100	10~1M		
	0.1 K	Standard	1 200	1.02M~10M	E24, 96	D(±0.5%), F(±1%)	
RMGW16			1 ±200 1~9.76	1~9.76		F(±1%)	
		0.1 K Standard	±100	10~1M	E24	J(±5%)	
			Standard ±200	1.1M~10M			
				1.0~9.1			
		K	±100	10~1M		D(±0.5%), F(±1%)	
		Standard	±200	1.02M~10M	E24, 96		
RMGW20	0.125			1~9.76		F(±1%)	
NINGVVZU	0.120	K	±100	10~1M	-		
		Standard	±200	1.1M~10M	E24	J(±5%)	
				1.0~9.1			
		K	±100	10~1M		D(±0.5%), F(±1%)	
		Standard	±200	1.02M~10M	E24, 96		
RMGW32	0.25			1~9.76		F(±1%)	
		K	±100	10~1M	504		
		Standard	±200	1.1M~10M	E24	J(±5%)	
				1.0~9.1			
		K	±100	10~1M	F24.00	D(±0.5%), F(±1%)	
		Standard	Standard ±200	1.02M~10M	E24, 96		
RMGW35	0.5	K	±100	1~9.76 10~1M		F(±1%)	
			±100		E24	(⊥ <b>⊑</b> 0/ )	
		Standard	±200	1.1M~10M 1.0~9.1	⊏∠4	J(±5%)	

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Title:

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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			Table-	1(2)			
Style	Rated dissipation (W)		rure coefficient of nce (10 <sup>6</sup> / °C)	Rated resistance range (Ω)	Preferred number series for resistors	Tolerance on rated resistance	
		K	±100	10~1M			
		Standard	±200	1.02M~10M	E24, 96	D(±0.5%), F(±1%)	
	0.75	Stanuaru	±200	1~9.76		F(±1%)	
RMGW50	0.75 K Standar	K	±100	10~1M	E24		
		Standard ±200	tandard ±200 1.1M~10M 1.0~9.1	1.1M~10M		J(±5%)	
		K	±100	10~1M		D(10.69(), T(149())	
		Chandard	1000	1.02M~10M	E24, 96	D(±0.5%), F(±1%)	
		Standard	±200	1~9.76		F(±1%)	
RMGW63	1	K	±100	10~1M			
		Standard	+200	1.1M~10M	E24	J(±5%)	
		Standard ±200		1.0~9.1			

Style	Limiting element voltage (V)	Insulation voltage (V)	Category temperature range(°C)
RMGW06	25	50	
RMGW10	50	100	
RMGW16	50	100	
RMGW20	150		-55~+155
RMGW32			-00~+100
RMGW35	200	500	
RMGW50	200		
RMGW63			

#### 3.2 Chip Jumper

	Table-1(3)				
Style	Chip jumper	Resistance value of	Rated current of chip jumper		
Siyle	symbol	chip jumper	(A)		
RMGW06	JP		1		
RMGW10			1		
RMGW16		50mΩmax.	1		
RMGW20			2		
RMGW32			2		
RMGW35			2		
RMGW50			2		
RMGW63			2		

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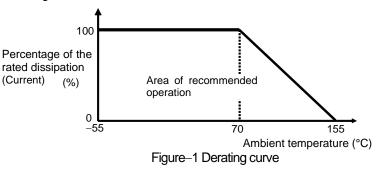
### No: RMGW-K-HTS-0002 /2

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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#### 3.3 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.



### 3.4 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.

$$E = \sqrt{P \cdot R}$$

E : Rated voltage (V) 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.

# 4. Packaging form

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

Symbol	Packaging form		Standard packaging quantity / units	Application
PA	Press pocket taping (paper taping)	8mm width, 2mm pitches	15,000 pcs.	RMGW06
TH	Paper taping	8mm width, 2mm pitches	10,000 pcs.	RMGW10
TP	Paper taping	8mm width, 4mm pitches	5,000 pcs.	RMGW16,20,32
TE Embossed taping	8mm width, 4mm pitches	4.000 pee	RMGW35	
	Empossed taping	12mm width, 4mm pitches	4,000 pcs.	RMGW50,63

Table\_2

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Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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#### 5. Dimensions

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

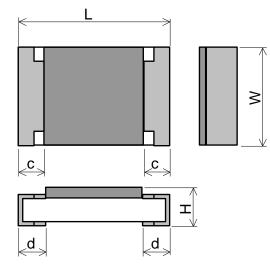


Figure-2

	Table-3			Unit : mm	
Style	L	W	Н	С	d
RMGW06	0.6±0.03	0.3±0.03	0.23±0.03	0.15±0.10	0.15±0.05
RMGW10	1.0±0.05	0.5±0.05	0.35±0.05	0.2 <u>+</u> 0.1	$0.25^{+0.05}_{-0.10}$
RMGW16	1.6±0.1	$0.8^{+0.15}_{-0.05}$	0.45±0.10	0.3 <u>+</u> 0.1	0.3±0.1
RMGW20	2.0±0.1	1.25±0.10	0.55±0.10	0.4±0.2	0.4 <u>+</u> 0.2
RMGW32	3.1±0.1	1.6±0.15	0.55±0.10	0.5±0.25	0.5±0.25
RMGW35	3.1±0.15	2.5±0.15	0.55±0.15	0.5±0.25	0.5±0.25
RMGW50	5.0±0.15	2.5±0.15	0.55±0.15	0.6±0.2	0.6±0.2
RMGW63	6.3±0.15	3.2±0.15	0.55±0.15	0.6±0.2	0.6±0.2

#### 5.2 Net weight (Reference)

Net weight(mg)
0.16
0.6
2
5
9
16
25
40

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#### Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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### 6. Marking

The Rated resistance of ,RMGW06, 10 should not be marked.

6.1 Resistor

The Rated resistance shall be marked in 3 digits (E24) or 4 digits (E96) and marked on over coat side.

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

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

The Rated resistance of RMGW16 should not be marked in 4 digits(E96).

Marking example	Contents	Application
123	$12 \times 10^3 \ [\Omega] \rightarrow 12 \ [k\Omega]$	E24(RMGW16,20,32,35,50,63)
2R2	2.2 [Ω]	E24(RMGW16,20,32,35,50,63)
5623	$562 \times 10^3 [\Omega] \rightarrow 562 [k\Omega]$	E96(RMGW20,32,35,50,63)
12R7	12.7 [Ω]	E96(RMGW20,32,35,50,63)

#### 6.2 Marking example of Jumper Chip

Marking example	Contents	Application
0	JP	RMGW16,20,32
000	JP	RMGW35,50,63

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE Title: ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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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.

	z me penormance shall be saus	Table-4(1)	
No	Test items	Condition of test	Performance requirements
1	High temperature exposure AEC Q200 - No.3	MIL-STD-202 Method 108 Ambient temperature:155 $\pm$ 2°C, Condition: Without load, Duration: 1000 $^{+48}_{0}$ h Interval measurements: 250 h and 500 h	Resistor: RMGW06: $\Delta$ R/R: Within ±(3%+0.1 $\Omega$ ) Others: $\Delta$ R/R: Within ±(2%+0.1 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
2	Temperature cycling AEC Q200 - No.4	JESD22 Method JA-104 Temperature: -55±3°C / 125±2°C, Dwell time: 30min maximum at each temp. Transition time: 1 min. max. Number of cycles: 1000 cycles. Interval measurements: 250 cy and 500 cy	Resistor: RMGW06: $\Delta$ R/R: Within ±(3%+0.1 $\Omega$ ) Others: $\Delta$ R/R: Within ±(1%+0.05 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
3	Bias humidity AEC Q200 – No.7	<ul> <li>MIL-STD-202 Method 103</li> <li>Condition: 85°C &amp; 85% R.H.</li> <li>Test power: 10% of rated power shall be applied for continuously.</li> <li>Duration: 1,000 <sup>+48</sup>/<sub>0</sub> h</li> <li>Interval measurements: 250 h and 500 h</li> </ul>	Resistor: RMGW06: $\Delta$ R/R: Within ±(3%+0.1 $\Omega$ ) Others: $\Delta$ R/R: Within ±(2%+0.1 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
4	Operational life AEC Q200 – No.8	MIL-STD-202 Method 108 Ambient temperature: 125±2°C The applied voltage shall be the voltage to be calculated at 35% of rated dissipation or the limiting element voltage whichever is the smaller. Condition: The voltage shall be applied for continuously. Duration: 1000 <sup>+48</sup> / <sub>0</sub> h	Resistor: RMGW06: $\Delta$ R/R: Within ±(3%+0.1 $\Omega$ ) Others: $\Delta$ R/R: Within ±(2%+0.1 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
5	External Visual AEC Q200 – No.9	Interval measurements: 250 h and 500 h MIL-STD-883 Method 2009	Inspect device construction, marking and workmanship.
6	Dimensions AEC Q200 – No.10	JESD22 Method JB-100	As in Table-3
7	Resistance to Solvents AEC Q200 – No.12	MIL-STD-202 Method 215 Solvent: 2–propanol at 25°C Immersion time: 3 min Brush: 10 times brushing Immersion and brush cycle: 3cycle	Resistor: $\Delta$ R/R: Within $\pm$ (1%+0.05 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
8	Mechanical Shock AEC Q200 – No.13	MIL-STD-202 Method 213 Waveform: half sine, Peak value100G, Normal duration 6ms Condition: XX'YY'ZZ', 10times each	Resistor: $\Delta R/R$ : Within $\pm (0.5\%+0.05\Omega)$ Chip jumper: $50m\Omega$ max. No visible damage

Product specification contained in this data sheet are subject to change at any time without notice.

Title:

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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		Table-4(2)	
No	Test items	Condition of test	Performance requirements
9	Vibration AEC Q200 – No.14	MIL-STD-202 Method 204 Peak acceleration and Sweep time: 5 g's for 20 min , Frequency 10Hz to 2000Hz, Condition: 12 cycles each of 3 orientations	Resistor: $\Delta R/R$ : Within $\pm (0.5\%+0.05\Omega)$ Chip jumper: $50m\Omega$ max. No visible damage
10	Resistance to soldering heat AEC Q200 - No.15	MIL-STD-202 Method 210 Solder bath temp: 260±5°C Immersed time: 10±1s	Resistor: $\Delta$ R/R: Within ±(0.5%+0.05 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
11	ESD test AEC Q200 – No.17	AEC-Q200-002 Human body model, 2 Kohm, 150 pF, Test voltage: RMGW16,20,32,35,50,63 2000V RMGW10 800V RMGW06: 500V	Resistor: $\Delta$ R/R: Within ±(5%+0.1 $\Omega$ ) No visible damage
12	Solderability AEC Q200 – No.18	J-STD-002 a) Bake the sample for 155 °C dwell time 4h / solder dipping 235°C/5s. Solder: Sn96.5-Ag3-Cu0.5 b) Category 3, Solder dipping 215°C/5s. Solder: Sn63Pb37 c) Category 3, Solder dipping 260°C/30s.	The surface of terminal immersed shall be min. of 95% covered with a new coating of solder.
13	Electrical Characterization AEC Q200 - No.19	1. D.C. Resistance 2. Temperature Coefficient of Resistance -55 °C / +20 °C +20 °C / +155 °C	<ol> <li>The resistance value shall correspond with the rated resistance taking into account the specified tolerance.</li> <li>As in Table–1</li> </ol>
14	Flammability AEC Q200 – No.20	UL-94	V-0 or V-1 are acceptable
15	Bending strength AEC Q200 – No.21	AEC-Q200-005 Bending value2mm Holding time: 60sec.	Resistor: $\Delta$ R/R: Within ±(0.5%+0.05 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
16	Adhesion AEC Q200 – No.22	AEC-Q200-006 Pressurizing force: RMGW20,32,35,50,63 17.7N RMGW10,16 10N RMGW06: 3N Test time: 60±1s.	Resistor: $\Delta$ R/R: Within ±(0.5%+0.05 $\Omega$ ) Chip jumper: 50m $\Omega$ max. No visible damage
17	Flame retardance AEC Q200 – No.24	AEC-Q200-001 Test conditions: 9VDC to 32VDC Each 1h This test applies to rated voltages of 32V and above.	The following FAILURE CRITERIA does not occur. FAILURE CRITERIA - Electrically open a) A flame over 3.0 seconds duration b) An explosion c) A temperature above 350°C sustained for over 10 s
18	Humid Sulfur vapor test (FOS)	ASTM B809 Reagent: Sulfur (Saturated vapor) Test temp.: 60°C Relative humidity: 95%RH Test period: 1000h Resistance	ΔR ≤ ± (1%+0.05Ω) Chip jumper: 50mΩ max.

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#### Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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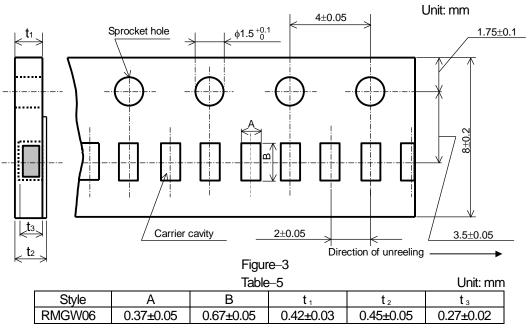
# 8. Taping

8.1 Applicable documents JIS C 0806–3: 2014, EIAJ ET–7200C: 2010

8.2 Taping dimensions

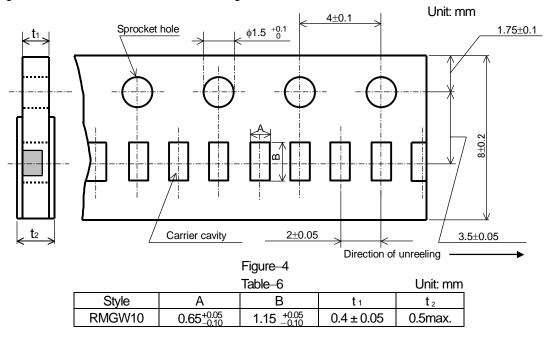
8.2.1 Press pocket taping (Paper taping, 8mm width, 2mm pitches)

Taping dimensions shall be in accordance with Figure-3 and Table-5.



### 8.2.2 Paper taping (8mm width, 2mm pitches)

Taping dimensions shall be in accordance with Figure-4 and Table-6.



Product specification contained in this data sheet are subject to change at any time without notice.

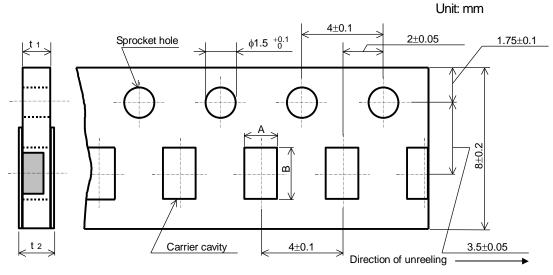
### No: RMGW-K-HTS-0002 /2

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# 8.2.3 Paper taping (8mm width, 4mm pitches)

Taping dimensions shall be in accordance with Figure-5 and Table-7.



#### Figure-5

	Unit: mm			
Style	tyle A B t <sub>1</sub>			
RMGW16	1.15±0.15	1.9 <u>+</u> 0.2	0.6 <u>+</u> 0.1	0.8max.
RMGW20	1.65±0.15	2.5±0.2	0.8±0.1	1.0max.
RMGW32	2.00±0.15	3.6 <u>+</u> 0.2	0.8 <u>+</u> 0.1	1.0max.

8.2.4 Embossed taping dimensions shall be in accordance with Figure-6 and Table-8.

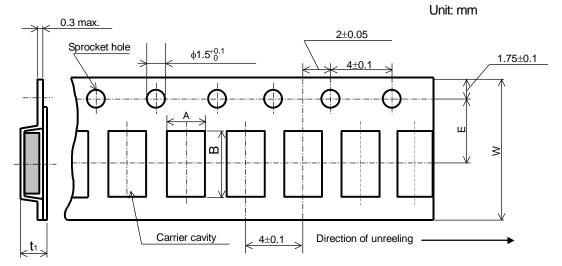


Fig	ure	-6
тy	uie	-0

Table-8					Unit: mm
Style	A	В	W	E	<b>t</b> 1
RMGW35	2.85±0.20	3.5±0.2	8.0 <u>+</u> 0.3	3.5±0.05	1.0 <del>±</del> 0.2
RMGW50	3.1±0.2	5.5±0.2	12.0 <u>+</u> 0.3	5.5±0.05	1.1±0.15
RMGW63	3.6 <u>+</u> 0.2	6.9 <u>+</u> 0.2	12.0 <u>+</u> 0.3	5.5 <u>+</u> 0.05	1.1 <u>+</u> 0.15

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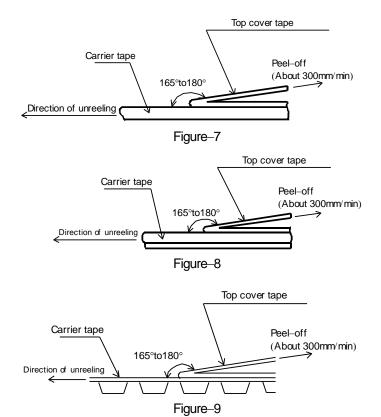
### Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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- 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 RMGW06: Figure–7. RMGW10,16,20,32: Figure–8 and RMGW35,50,63 Figure-9.
- 6). When the tape is bent with the minimum radius for RMGW06,10,16,20,32,35: 25 mm, or RMGW50,63: 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.



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. Issue: KAMAYA ELECTRIC CO., LTD. Research & Development Department HOKKAIDO Research center Last update: 2025.1.7

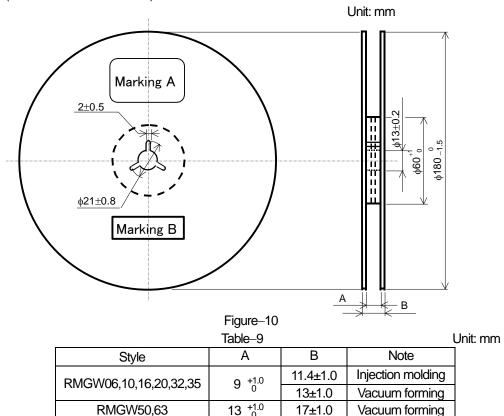
### No: RMGW-K-HTS-0002 /2

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE ANTI-SULFURATION RMGW06,10,16,20,32,35,50,63

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#### 8.3 Reel dimension

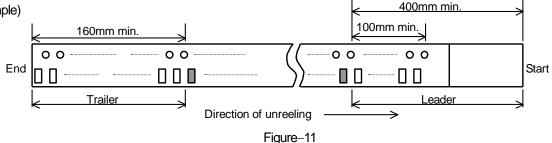
Reel dimensions shall be in accordance with the following Figure–10 and Table–9. Plastic reel (Based on EIAJ ET–7200C)



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

#### 8.4 Leader and trailer tape.

(Example)



### 9. Marking on package

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

### 9.1 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

9.2 Marking B (KAMAYA Control label)

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