Spec. No.:
 RMPC-K-HTS-0001
 /4

 Date:
 2022.8.18

Data sheet

Title: FIXED THICK FILM CHIP RESISTORS;

RECTANGULAR TYPE AND Pb<100ppm

Style: RMPC04,06,10,16,20,32,35

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

Trawing No: RMPC-K-HTS-0001

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE AND Pb<100ppm

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1. Scope

1.1 This specification covers the detail requirements for fixed thick film chip resistors; rectangular type, style of RMPC04, 06, 10, 16, 20, 32, 35.

Style

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) | RMPC | 16 | | 123 | J | TP |
|----|-------|----|---|-----|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| | Style | • | | | | |
| 2) | RMPC | 16 | | JP | | TP |
| • | 1 | 2 | | 4 | | 6 |
| | Style | ; | | | | |

- 1 Fixed thick film chip resistors; rectangular type & Pb<100ppm
- 2 Dimension
- 3 Temperature coefficient of resistance

| (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

| F | ±1% |
|---|-----|
| J | ±5% |

6 Packaging form

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

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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) | re | ure coefficient of esistance | Rated resistance range (Ω) | Preferred number series for resistors | Tolerance on rated resistance |
|----------|-----------------------------|---------------|------------------------------|----------------------------|---------------------------------------|-------------------------------|
| | , | | ±200 | 100~1M | F04.00 | F(140/) |
| | | | +600~0 | 10~97.6 | E24, 96 | F(±1%) |
| RMPC04 | 0.03 | Standard | ±200 | 100~1M | | |
| | | | +600~0 | 10~9.1 | E24 | J(±5%) |
| | | | +800~-100 | 1~9.1 | | , |
| | | | ±200 | 100~10M | | |
| | | | +600~0 | 10~97.6 | E24, 96 | F(±1%) |
| DNADOGG | 0.05 | Ot a sala sal | +800~-100 | 1~9.76 | · | , |
| RMPC06 | 0.05 | Standard | ±200 | 100~10M | | |
| | | | +600~0 | 10~91 | E24 | J(±5%) |
| | | | +800~-100 | 1~9.1 | | , |
| | | | ±200 | 100~10M | | |
| | | | +500~-200 | 10~97.6 | E24, 96 | F(±1%) |
| DMDC10 | 0.000 | Ctorodoval | +800~-100 | 1~9.76 | | , , |
| RMPC10 | 0.063 | Standard | ±200 | 100~10M | | J(±5%) |
| | | | +500~-200 | 10~91 | E24 | |
| | | | +800~-100 | 1~9.1 | | |
| | 0.1 | Ole select | ±200 | 100~10M | E24, 96 | F(±1%) |
| | | | +500~-200 | 10~97.6 | | |
| RMPC16 | | | +800~-100 | 1~9.76 | | |
| RIVIPOID | | Standard | ±200 | 100~10M | E24 | J(±5%) |
| | | | +500~-200 | 10~91 | | |
| | | | +800~-100 | 1~9.1 | | |
| | | | ±200 | 100~10M | | |
| | 0.125 | | +500~-200 | 10~97.6 | E24, 96 | F(±1%) |
| RMPC20 | | Standard | +800~-100 | 1~9.76 | | |
| NIVIPO20 | | Staridard | ±200 | 100~10M | | |
| | | | +500~-200 | 10~91 | E24 | J(±5%) |
| | | | +800~-100 | 1~9.1 | | |
| | | | ±200 | 100~10M | | |
| | | | +500~-200 | 10~97.6 | E24, 96 | F(±1%) |
| RMPC32 | 0.05 | Ctondord | +800~-100 | 1~9.76 | | , , |
| RIVIPUSZ | 0.25 | Standard | ±200 | 100~10M | | |
| | | | +500~-200 | 10~91 | E24 | J(±5%) |
| | | | +800~-100 | 1~9.1 | | |
| | | | ±200 | 100~10M | | F(±1%) |
| | | | +500~-200 | 10~97.6 | E24, 96 | |
| RMPC35 | 0.33 | Standard | +800~-100 | 1~9.76 | | |
| LINILOSS | 0.33 | | ±200 | 100~10M | | |
| | | | +500~-200 | 10~91 | E24 | J(±5%) |
| | | | +800~-100 | 1~9.1 | | |

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| Style | Limiting element voltage (V) | Insulation voltage (V) | Category temperature range (°C) |
|--------|------------------------------|------------------------|------------------------------------|
| RMPC04 | 15 | 50 | |
| RMPC06 | 25 | 30 | |
| RMPC10 | 50 | 100 | |
| RMPC16 | 50 | 100 | <i>–</i> 55∼+125 |
| RMPC20 | 150 | | |
| RMPC32 | 200 | 500 | |
| RMPC35 | 200 | | |

3.2 Chip Jumper

Table-1(2)

| Style | Chip jumper symbol | Resistance value of chip jumper | Rated current of chip jumper(A) |
|--------|--------------------|---------------------------------|---------------------------------|
| RMPC04 | | | 0.5 |
| RMPC06 | | | 1 |
| RMPC10 | | | 1 |
| RMPC16 | JP | 50mΩmax. | 2 |
| RMPC20 | | | 2 |
| RMPC32 | | | 2 |
| RMPC35 | | | 2 |

3.3 Climatic category

55/125/56 Lower category temperature $-55\,^{\circ}\text{C}$ Upper category temperature $+125\,^{\circ}\text{C}$

Duration of the damp heat, steady state test 56days

3.4 Stability class

5% Limits for change of resistance:

 $\begin{array}{ll} -\text{for long-term tests} & \pm (5\% + 0.1 \Omega) & \text{Chip jumper: } 50 \text{ m}\Omega \text{ max.} \\ -\text{for short-term tests} & \pm (1\% + 0.05 \Omega) & \text{Chip jumper: } 50 \text{ m}\Omega \text{ max.} \end{array}$

3.5 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.

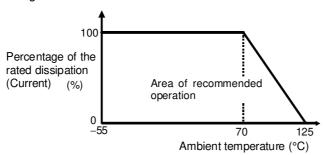


Figure-1 Derating curve

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3.6 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.

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.

Table-2

| Symbol | Pa | ckaging form | Standard packaging quantity / units | Application |
|--------|----------------------|----------------------------|--|--------------------------|
| В | Bulk (loose package) | | 1,000 pcs. | RMPC04,06,10,16,20,32,35 |
| PA | Press pocket taping | 8mm width, 2mm pitches | 20,000 pcs. | RMPC04 |
| FA | (paper taping) | ornim width, zinim pitches | 15,000 pcs. | RMPC06 |
| TH | Paper taping | 8mm width, 2mm pitches | 10,000 pcs. | RMPC10 |
| TP | Paper taping | 8mm width, 4mm pitches | 5,000 pcs. | RMPC16,20,32 |
| TE | Embossed taping | 8mm width, 4mm pitches | 4,000 pcs. | RMPC35 |

5. Dimensions

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

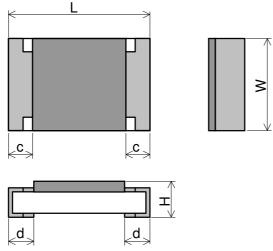


Figure-2

Table–3 Unit: mm

| Style | L | W | Н | С | d |
|--------|----------|-----------------------|-----------|-----------|------------------------|
| RMPC04 | 0.4±0.02 | 0.2±0.02 | 0.13±0.02 | 0.08±0.03 | 0.1±0.03 |
| RMPC06 | 0.6±0.03 | 0.3±0.03 | 0.23±0.03 | 0.1±0.05 | 0.15±0.05 |
| RMPC10 | 1.0±0.05 | 0.5±0.05 | 0.35±0.05 | 0.2±0.1 | $0.25^{+0.05}_{-0.10}$ |
| RMPC16 | 1.6±0.1 | $0.8^{+0.15}_{-0.05}$ | 0.45±0.10 | 0.3±0.1 | 0.3±0.1 |
| RMPC20 | 2.0±0.1 | 1.25±0.10 | 0.55±0.10 | 0.4±0.2 | 0.4±0.2 |
| RMPC32 | 3.1±0.1 | 1.6±0.15 | 0.55±0.10 | 0.5±0.25 | 0.5±0.25 |
| RMPC35 | 3.1±0.15 | 2.5±0.15 | 0.55±0.15 | 0.5±0.25 | 0.5±0.25 |

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5.2 Net weight (Reference)

| Style | Net weight(mg) |
|--------|----------------|
| RMPC04 | 0.035 |
| RMPC06 | 0.16 |
| RMPC10 | 0.6 |
| RMPC16 | 2 |
| RMPC20 | 5 |
| RMPC32 | 9 |
| RMPC35 | 16 |

6. Marking

The Rated resistance of RMPC04,06,10 should not be marked.

6.1 RMPC16,20,32,35

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

• RMPC20,32,35: 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 RMPC16 should not be marked in 4 digits.

| Marking example | Contents | Application |
|-----------------|--|---|
| 123 | $12\times10^3 \ [\Omega] \rightarrow 12 \ [k\Omega]$ | RMPC16,20,32,35 |
| 2R2 | 2.2 [Ω] | Less than 10Ω of RMPC16,20,32,35 |
| 5623 | $562\times10^3 [\Omega] \rightarrow 562[k\Omega]$ | RMPC20,32,35 |
| 12R7 | 12.7 [Ω] | RMPC20,32,.35 |

6.2 Marking example of Jumper Chip

| Marking example | Contents | Application |
|-----------------|----------|--------------|
| 0 | JP | RMPC16,20,32 |
| 000 | JF | RMPC35 |

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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 | 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 | |
| 2 | Dimension | Sub-clause 4.4.2 | checked by visual examination. 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: $50m\Omega$ max. | |
| 3 | Voltage proof | Sub-clause 4.7 Method: 4.6.1.4(See Figure-3) 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 $R \ge 1 \; G \; \Omega$ | |
| 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. | |

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Table-4(2)

| No | Test items | Condition of test (JIS C 5201–1) | Performance requirements |
|----------|---------------------------------|---|--|
| 5 | Mounting | Sub-clause 4.31 | · |
| | | Substrate material: Epoxide woven glass | |
| | 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 | |
| | | Visual examination | No visible damage |
| | | Resistance | $\Delta R \le \pm (1\% + 0.05\Omega)$ |
| | Oal and serial and serial and | | 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 | |
| | NA alla | Without recovery | |
| 6 | Mounting | Sub-clause 4.31 | |
| | Bound strength of the end face | Substrate material: Epoxide woven glass | |
| | plating | Sub-clause 4.33 | |
| | Piaurig | Bent value: 3 mm | $\Delta R \le \pm (1\% + 0.05\Omega)$ |
| | | Resistance | Chip jumper: $50m\Omega$ max. |
| | Final measurements | Sub-clause 4.33.6 | No visible damage |
| | T marmoadaromena | Visual examination | NO VISIBLE dalliage |
| 7 | Resistance to soldering heat | Sub-clause 4.18 | |
| ' | Tiesistaries to soldering ricat | Solder temperature: 260 °C ± 5 °C | |
| | | Immersion time: 10 s ± 0.5 s | |
| | | Visual examination | As in 4.18.3.4 |
| | | Violati Oxariii latori | No sign of damage such as cracks. |
| | | Resistance | $\Delta R \le \pm (1\% + 0.05\Omega)$ |
| | | | Chip jumper: $50m\Omega$ max. |
| | Component solvent resistance | Sub-clause 4.29 | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 |
| | | Solvent: 2-propanol | |
| | | Solvent temperature: 23 °C ± 5 °C | |
| | | Method 2 | |
| | | Recovery: 48 h | |
| | | Visual examination | No visible damage |
| | | Resistance | $\Delta R \le \pm (1\% + 0.05\Omega)$ |
| | | | Chip jumper: $50m\Omega$ max. |

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Table-4(3)

| No | Test items | Condition of test (JIS C 5201–1) | Performance requirements |
|--------------------------------------|---------------------------|---|---------------------------------------|
| 8 | Mounting | Sub-clause 4.31 Substrate material: Epoxide woven glass | |
| | Adhesion | Sub-clause 4.32 | |
| | 7 10.100.001 | Force: 3N | |
| | | (RMPC04: 2N, RMPC06: 3N) | |
| | | Duration: 10 s ± 1 s | No visible damage |
| | Rapid change temperature | Visual examination | |
| | | Sub-clause 4.19 | |
| | | Lower category temperature: -55 °C | |
| | | Upper category temperature: +125 °C | |
| | | Duration of exposure at each temperature: 30 | |
| | | min. | No visible damage |
| | | Number of cycles: 5 cycles. | $\Delta R \le \pm (1\% + 0.05\Omega)$ |
| | | Visual examination | Chip jumper: $50m\Omega$ max. |
| | Climatia anni anna | Resistance | Onip jumper. 30msz max. |
| 9 | Climatic sequence | Sub-clause 4.23 | |
| | -Dry heat | Sub-clause 4.23.2 | |
| | | Test temperature: +125 °C Duration: 16 h | |
| | –Damp heat, cycle | Sub-clause 4.23.3 | |
| (12+12hour cycle) First cycle -Cold | | Test method: 2 | |
| | | Test temperature: 55 °C | |
| | | [Severity(2)] | |
| | | Sub-clause 4.23.4 | |
| | | 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)] | |
| | D.O. Install | 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 | No visible damage |
| | | Resistance | $\Delta R \le \pm (5\% + 0.1\Omega)$ |
| | | 1 toolotal loo | Chip jumper: $50 \text{m}\Omega$ max. |

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Table-4(4)

| Nia | Took itemas | 1able 4(4) | Dayfaynaanaa yaay iyamaata |
|---------------------------|--|--|---------------------------------------|
| No | Test items | Condition of test (JIS C 5201–1) | Performance requirements |
| 10 | Mounting | Sub-clause 4.31 | |
| | | Substrate material: Epoxide woven glass | |
| | First war as at 70 00 | | |
| | 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. | |
| | | 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: | No visible damage |
| | | Visual examination | |
| | | Resistance | $\Delta R \le \pm (5\% + 0.1\Omega)$ |
| 11 | Mounting | Cub planes 4.04 | Chip jumper: $50 \text{m}\Omega$ max. |
| ' ' | Mounting | Sub-clause 4.31 | |
| | | Substrate material: Epoxide woven glass | |
| | | Test substrate: Figure-3 | |
| | Variation of resistance with | Culs alaura 4.0 | As in Table–1 |
| | temperature | Sub-clause 4.8 | As in Table—1 |
| | temperature | -55 °C / +20 °C | |
| 40 | | +20 °C / +125°C | |
| 12 | Mounting | Sub-clause 4.31 | |
| | | Substrate material: Epoxide woven glass | |
| | Danna hand atanah atata | | |
| | Damp heat, steady state Sub-clause 4.24 | | |
| | | Ambient temperature: 40 °C ± 2 °C | |
| | Relative humidity: 93 + 3/3 % a) 1st group: without voltage applied. b) 2nd group: The d. c. voltage shall be applied continuously. The voltage shall be accordance with | | |
| | | | |
| | | | |
| | | | |
| | | | |
| voltage [4.24.2.1, c)] | | Sub-clause 4.24.2.1 b). without polarizing | |
| | | | |
| | | 1 | No visible damage |
| | | Visual examination | Legible marking |
| | | Pagiatanaa | $\Delta R \le \pm (5\% + 0.1\Omega)$ |
| | | Resistance | Chip jumper: $50m\Omega$ max. |
| 13 | Dimensions (detail) | Sub-clause 4.4.3 | As in Table_3 |
| | Mounting | Sub-clause 4.4.3 | 7.5 111 10010 0 |
| | | Substrate material: Epoxide woven glass | |
| | Endurance at upper category | TSub-clause 4.25.3 | |
| | temperature | Ambient temperature:125 °C ± 2 °C | |
| Duration: 1000 h | | | |
| | Examination at 48 h, 500 h and 1000 h: | | |
| | | | |
| | | Visual examination | No visible damage |
| | | Resistance | $\Delta R \le \pm (5\% + 0.1\Omega)$ |
| | | 1.00.000.100 | Chip jumper: $50m\Omega$ max. |
| | | | orip jumpor. oomse max. |

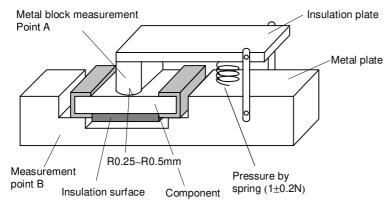
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- RMPC10,16,20,32,35

· RMPC04,06



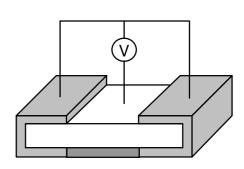


Figure-3

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 4 and Table 5.

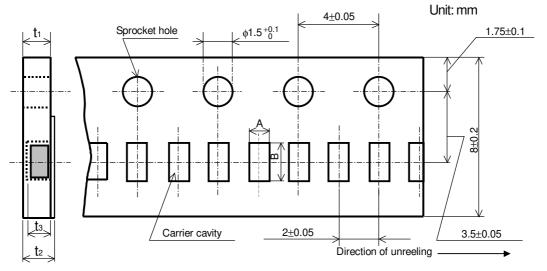


Figure-4

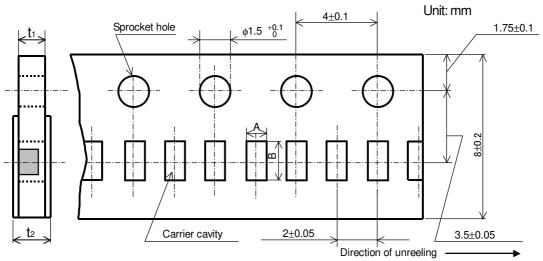
| Iable-5 | | | | Unit: mm | |
|---------|-----------|-----------|-----------|----------------|----------------|
| Style | Α | В | t 1 | t ₂ | t ₃ |
| RMPC04 | 0.24±0.03 | 0.45±0.03 | 0.31±0.03 | 0.36±0.03 | 0.15±0.02 |
| RMPC06 | 0.37±0.05 | 0.67±0.05 | 0.42±0.03 | 0.45±0.05 | 0.27±0.02 |

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

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



Figure–5 Table–6 Unit: mm Style A B t_1 t_2 RMPC10 $0.65^{+0.05}_{-0.10}$ $1.15^{+0.05}_{-0.10}$ 0.4 ± 0.05 0.5max.

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

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

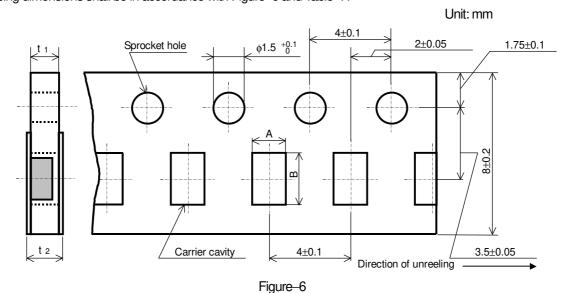


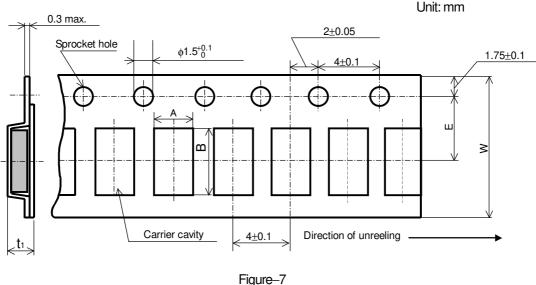
Table-7 Unit: mm A В Style tı RMPC16 1.15±0.15 1.9±0.2 0.6 ± 0.1 0.8max. RMPC20 1.65±0.15 2.5±0.2 0.8±0.1 1.0max. RMPC32 2.00±0.15 3.6±0.2

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8.2.4 Embossed taping dimensions shall be in accordance with Figure-7 and Table-8.

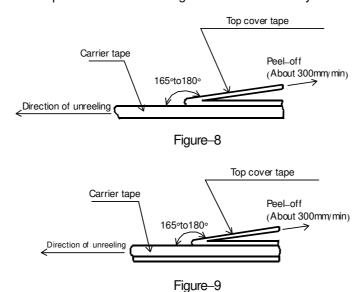


Table–8 Unit: mm

| | Offic. ITHI | | | | |
|--------|-------------|---------|---------|----------|------------|
| Style | Α | В | W | Е | t 1 |
| RMPC35 | 2.85±0.20 | 3.5±0.2 | 8.0±0.2 | 3.5±0.05 | 1.0±0.2 |
| | | | | | |

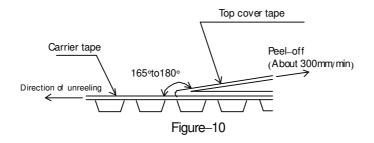
- 1). The cover tapes shall not cover the sprocket holes.
- 2). Tapes in adjacent layers shall not stick together in the packing.
- 3). Components shall not stick to the carrier tape or to the cover tape.
- 4). Pitch tolerance over any 10 pitches ±0.2mm.
- 5). The peel strength of the top cover tape shall be with in 0.1N to 0.5N on the test method as shown in the following RMPC04,06: Figure–8, RMPC10,16,20,32: Figure–9, RMPC35: Figure–10.
- 6). When the tape is bent with the minimum radius for 25 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.



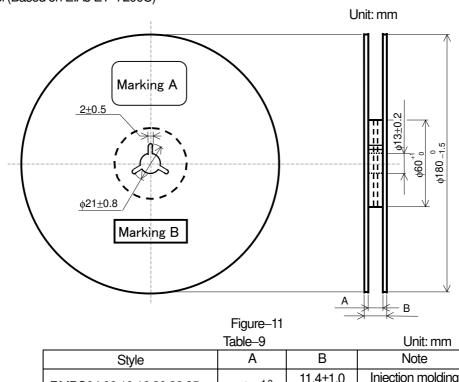
FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE AND Pb<100ppm

RMPC04,06,10,16,20,32,35 Page: 13/14



8.3 Reel dimension

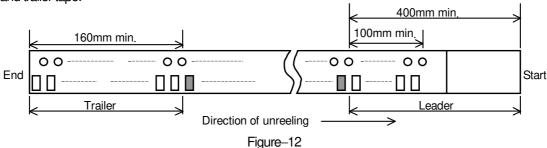
Reel dimensions shall be in accordance with the following Figure-11 and Table-9. Plastic reel (Based on EIAJ ET-7200C)



Injection molding 11.4±1.0 9 +1.0 RMPC04,06,10,16,20,32,35 13±1.0 Vacuum forming

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.



Drawing No: RMPC-K-HTS-0001

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE AND Pb<100ppm

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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)