

# Specification

(Reference)

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE  
AND HIGH VOLTAGE

Style: RVC16,20,32,50,63

|                           |
|---------------------------|
| RoHS COMPLIANCE ITEM      |
| Halogen and Antimony Free |

Product specification contained in this specification  
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.**

Issue Dept.: Research & Development Department Hokkaido Research Center

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE AND HIGH VOLTAGE  
RVC16,20,32,50,63

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## 1. Scope

1.1 This specification covers the detail requirements for fixed thick film chip resistors; rectangular type, style of RVC16, 20, 32, 50, 63

## 1.2 Applicable documents

JIS C 5201-1: 1998, JIS C 5201-8: 1998, JIS C 5201-8-1: 1998

IEC60115-1: 1999, IEC60115-8: 1989 Amendment 1: 1992, IEC60115-8-1: 1989

EIAJ RC-2134B-2002

## 2. Classification

Type designation shall be the following form.

(Example) 

|     |    |   |     |   |    |
|-----|----|---|-----|---|----|
| RVC | 32 | — | 475 | F | TP |
| 1   | 2  | 3 | 4   | 5 | 6  |

  
Style

1 Fixed thick film chip resistors; rectangular type and high voltage   Style

2 Size

3 Temperature coefficient of resistance

|         |                                           |
|---------|-------------------------------------------|
| K       | $\pm 100 \times 10^{-6} / ^\circ\text{C}$ |
| —(Dash) | Standard                                  |

4 Rated resistance Example; 475  $\rightarrow$  4.7M $\Omega$

5 Tolerance on rated resistance

6 Packaging form

## 3. Rating

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

Table-1(1)

| Style | Rated dissipation (W) | Temperature coefficient of resistance ( $10^{-6} / ^\circ\text{C}$ ) |           | Rated resistance range( $\Omega$ ) | Preferred number series for resistors | Tolerance on rated resistance   |
|-------|-----------------------|----------------------------------------------------------------------|-----------|------------------------------------|---------------------------------------|---------------------------------|
| RVC16 | 0.1                   | K                                                                    | $\pm 100$ | 470~10M                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       | Standard                                                             | $\pm 200$ | 47~464                             | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
| RVC20 | 0.25                  | K                                                                    | $\pm 100$ | 100~10M                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           | 100~51M                            | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       | Standard                                                             | $\pm 200$ | 47~97.6                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
| RVC32 | 0.25                  | K                                                                    | $\pm 100$ | 100k~4.7M                          | E24, 96                               | D( $\pm 0.5\%$ )                |
|       |                       |                                                                      |           | 100~10M                            |                                       | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           | 100~51M                            |                                       | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       | Standard                                                             | $\pm 200$ | 47~97.6                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
| RVC50 | 0.5                   | K                                                                    | $\pm 100$ | 470~20M                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           | 470~51M                            | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       | Standard                                                             | $\pm 200$ | 47~464                             | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
| RVC63 | 1.0                   | K                                                                    | $\pm 100$ | 560~20M                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           | 560~51M                            | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       | Standard                                                             | $\pm 200$ | 100~549                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |
|       |                       |                                                                      | +500—200  | 47~97.6                            | E24, 96                               | F( $\pm 1\%$ ), G( $\pm 2\%$ )  |
|       |                       |                                                                      |           |                                    | E24                                   | J( $\pm 5\%$ ), K( $\pm 10\%$ ) |

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Table-1(2)

| Style | Limiting element voltage(V) | Isolation voltage (V) | Category temperature range (°C) |
|-------|-----------------------------|-----------------------|---------------------------------|
| RVC16 | 200                         | 100                   | -55~+155                        |
| RVC20 | 400                         | 500                   |                                 |
| RVC32 | 500                         |                       |                                 |
| RVC50 | 500                         |                       |                                 |
| RVC63 | 800                         |                       |                                 |

### 3.2 Climatic category

55/125/56

Lower category temperature - 55 °C  
Upper category temperature +155 °C  
Duration of the damp heat, steady state test 56days

### 3.3 Stability class

5%

Limits for change of resistance:

-for long-term tests  $\pm(5\%+0.1\Omega)$   
-for short-term tests  $\pm(1\%+0.05\Omega)$

### 3.4 Derating

The derated values of dissipation at temperature in excess of 70 °C shall be as indicated by the following curve.

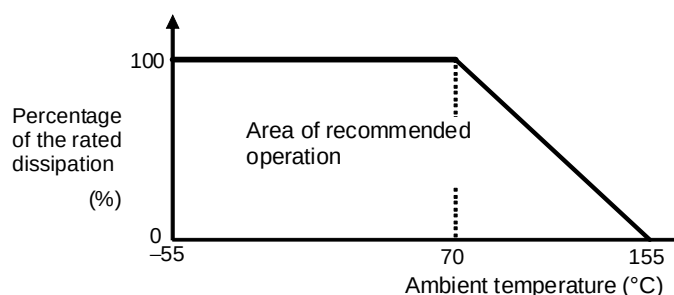


Figure-1 Derating curve

### 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.

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

E : Rated voltage (V)

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.

### 4. Packaging form

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

Table-2

| Symbol | Packaging form       |                         | Standard packaging quantity / units | Application           |
|--------|----------------------|-------------------------|-------------------------------------|-----------------------|
| B      | Bulk (loose package) |                         | 1,000 pcs.                          | RVC16, 20, 32, 50, 63 |
| TP     | Paper taping         | 8mm width, 4mm pitches  | 5,000 pcs.                          | RVC16, 20, 32         |
| TE     | Embossed taping      | 12mm width, 4mm pitches | 4,000 pcs.                          | RVC50, 63             |

## 5. Dimensions

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

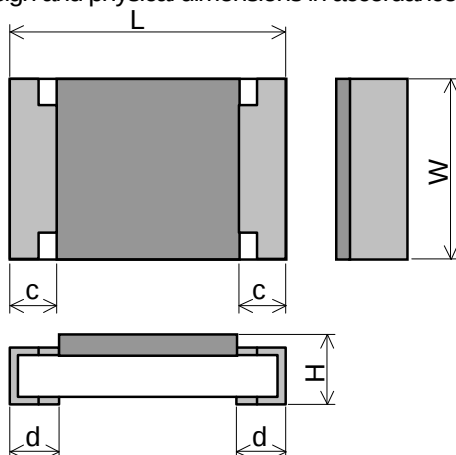


Figure-2

Table-3

Unit : mm

| Style | L              | W                     | H               | c              | d              |
|-------|----------------|-----------------------|-----------------|----------------|----------------|
| RVC16 | $1.6 \pm 0.1$  | $0.8^{+0.15}_{-0.05}$ | $0.45 \pm 0.10$ | $0.3 \pm 0.1$  | $0.3 \pm 0.1$  |
| RVC20 | $2.0 \pm 0.1$  | $1.25 \pm 0.10$       | $0.55 \pm 0.10$ | $0.4 \pm 0.2$  | $0.4 \pm 0.2$  |
| RVC32 | $3.1 \pm 0.1$  | $1.6 \pm 0.15$        |                 | $0.5 \pm 0.25$ | $0.5 \pm 0.25$ |
| RVC50 | $5.0 \pm 0.15$ | $2.5 \pm 0.15$        | $0.55 \pm 0.15$ | $0.6 \pm 0.2$  | $0.6 \pm 0.2$  |
| RVC63 | $6.3 \pm 0.15$ | $3.2 \pm 0.15$        |                 |                |                |

## 5.2 Net weight (Reference)

| Style | Net weight(mg) |
|-------|----------------|
| RVC16 | 2              |
| RVC20 | 5              |
| RVC32 | 9              |
| RVC50 | 25             |
| RVC63 | 40             |

## 6. Marking

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

The Rated resistance of RVC16 should not be marked in 4 digits.

(Example) "123"  $\rightarrow 12 \times 10^3 [\Omega] \rightarrow 12 [k\Omega]$

"5623"  $\rightarrow 562 \times 10^3 [\Omega] \rightarrow 562 [k\Omega]$

"51R1"  $\rightarrow 51.1 [\Omega]$

## 7. Performance

7.1 The standard condition for tests shall be in accordance with Sub-clause 4.2, JIS C 5201-1: 1998.

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

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RVC16,20,32,50,63

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Table-4(2)

| No | Test items                                                                       | Condition of test (JIS C 5201-1)                                                                                                                                                                                                                                                                                                                                                                                                                              | Performance requirements                                                                                                                                     |
|----|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6  | Mounting<br><br>Bound strength of the end face plating<br><br>Final measurements | Sub-clause 4.31<br>Substrate material: Epoxide woven glass<br>Test substrate: Figure-4<br>Sub-clause 4.33<br>Bent value: 3 mm (3216 size max.)<br>1 mm (5025 size min.)<br><br>Resistance<br>Sub-clause 4.33.6<br>Visual examination                                                                                                                                                                                                                          | $\Delta R \leq \pm (1\%+0.05\Omega)$<br>No visible damage                                                                                                    |
| 7  | Resistance to soldering heat<br><br><br>Component resistance solvent             | Sub-clause 4.18<br>Solder temperature: $260\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$<br>Immersion time: $10\text{ s} \pm 0.5\text{ s}$<br>Visual examination<br><br>Resistance<br>Sub-clause 4.29<br>Solvent: 2-propanol<br>Solvent temperature: $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$<br>Method 2<br>Recovery: 48 h<br>Visual examination<br>Resistance                                                                   | As in 4.18.3.4<br>No sign of damage such as cracks.<br>$\Delta R \leq \pm (1\%+0.05\Omega)$<br><br>No visible damage<br>$\Delta R \leq \pm (1\%+0.05\Omega)$ |
| 8  | Mounting<br><br>Adhesion<br><br>Rapid change temperature                         | Sub-clause 4.31<br>Substrate material: Epoxide woven glass<br>Test substrate: Figure-3<br>Sub-clause 4.32<br>Force: 5 N<br>Duration: $10\text{ s} \pm 1\text{ s}$<br>Visual examination<br>Sub-clause 4.19<br>Lower category temperature: $-55\text{ }^{\circ}\text{C}$<br>Upper category temperature: $+125\text{ }^{\circ}\text{C}$<br>Duration of exposure at each temperature: 30 min.<br>Number of cycles: 5 cycles.<br>Visual examination<br>Resistance | No visible damage<br><br><br><br><br><br>No visible damage<br>$\Delta R \leq \pm (1\%+0.05\Omega)$                                                           |

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Table-4(3)

| No | Test items                                                                                                                                                                                  | Condition of test (JIS C 5201-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Performance requirements                                 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 9  | Climatic sequence<br>–Dry heat<br><br>–Damp heat, cycle<br>(12+12hour cycle)<br>First cycle<br><br>–Cold<br><br>–Damp heat, cycle<br>(12+12hour cycle)<br>Remaining cycle<br><br>–D.C. load | Sub-clause 4.23<br>Sub-clause 4.23.2<br>Test temperature: +155 °C<br>Duration: 16 h<br><br>Sub-clause 4.23.3<br>Test method: 2<br>Test temperature: 55 °C<br>[Severity(2)]<br>Sub-clause 4.23.4<br>Test temperature –55 °C<br>Duration: 2h<br><br>Sub-clause 4.23.6<br>Test method: 2<br>Test temperature: 55 °C<br>[Severity (2)]<br>Number of cycles: 5 cycles<br>Sub-clause 4.23.7<br>The applied voltage shall be the rated voltage<br>or the limiting element voltage whichever is the<br>smaller.<br>Duration: 1 min.<br>Visual examination<br>Resistance | No visible damage<br>$\Delta R \leq \pm (5\%+0.1\Omega)$ |
| 10 | Mounting<br><br><br>Endurance at 70 °C                                                                                                                                                      | Sub-clause 4.31<br>Substrate material: Epoxide woven glass<br>(RVC63 may use Alumina substrate.)<br>Test substrate: Figure-3<br>Sub-clause 4.25.1<br>Ambient temperature: 70 °C $\pm$ 2 °C<br>Duration: 1000 h<br>The voltage shall be applied in cycles of 1.5 h<br>on and 0.5 h.<br>The applied voltage shall be the rated voltage<br>or the limiting element voltage whichever is the<br>smaller.<br>Examination at 48 h , 500 h and<br>1000 h:<br>Visual examination<br>Resistance                                                                          | No visible damage<br>$\Delta R \leq \pm (5\%+0.1\Omega)$ |

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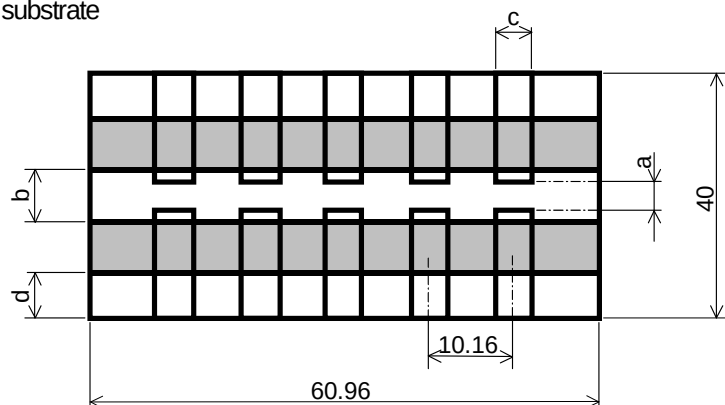
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Table-4(4)

| No | Test items                                                                     | Condition of test (JIS C 5201-1)                                                                                                                                                                                                                                                                                                                                                                                                                            | Performance requirements                                                                          |
|----|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 11 | Mounting<br><br>Variation of resistance with temperature                       | Sub-clause 4.31<br>Substrate material: Epoxide woven glass<br>Test substrate: Figure-3<br>Sub-clause 4.8<br>-55 °C / +20 °C<br>+20 °C / +155°C                                                                                                                                                                                                                                                                                                              | As in Table-1                                                                                     |
| 12 | Mounting<br><br>Damp heat, steady state                                        | Sub-clause 4.31<br>Substrate material: Epoxide woven glass<br>Test substrate: Figure-3<br>Sub-clause 4.24<br>Ambient temperature: 40 °C ± 2 °C<br>Relative humidity : 93 $\pm$ <sub>3</sub> %<br>a) 1st group: without voltage applied.<br>b) 2nd group: The d. c. voltage shall be applied continuously.<br>The voltage shall be accordance with Sub-clause 4.24.2.1 b). without polarizing voltage [4.24.2.1, c)]<br>Visual examination<br><br>Resistance | No visible damage<br>Legible marking<br>$\Delta R \leq \pm (5\%+0.1\Omega)$                       |
| 13 | Dimensions (detail)<br>Mounting<br><br>Endurance at upper category temperature | Sub-clause 4.4.3<br>Sub-clause 4.31<br>Substrate material: Epoxide woven glass<br>Test substrate: Figure-3<br>Sub-clause 4.25.3<br>Ambient temperature:155 °C ± 2 °C<br>Duration: 1000 h<br>Examination at 48 h, 500 h and 1000 h:<br>Visual examination<br>Resistance                                                                                                                                                                                      | As in Table-3<br><br><br><br><br><br><br>No visible damage<br>$\Delta R \leq \pm (5\%+0.1\Omega)$ |



## 8. Test substrate



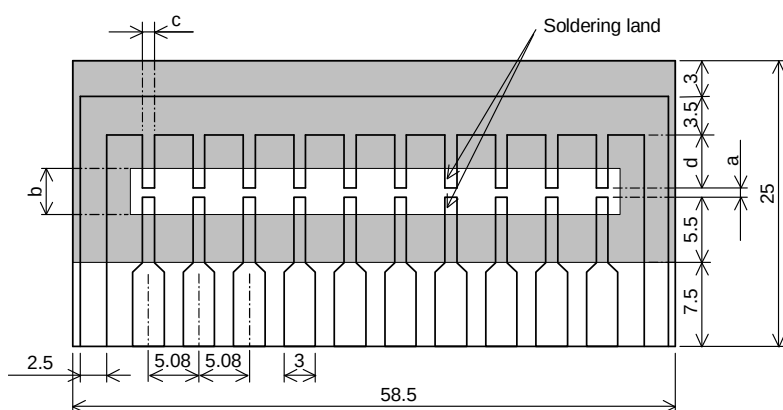
RVC50,63 TEST SUBSTRATE

Unit: mm

☐ :Copper clad

 :Solder resist

| Style | a   | b   | c   | d   |
|-------|-----|-----|-----|-----|
| RVC50 | 4.0 | 7.5 | 2.0 | 7.5 |
| RVC63 | 5.0 | 9.0 | 4.5 | 7.5 |



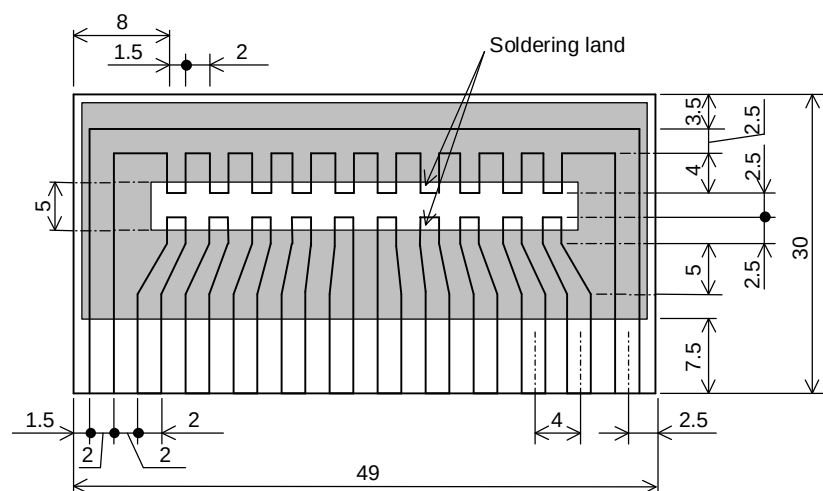
RVC16,20 TEST SUBSTRATE

Unit: mm

☐ :Copper clad

 :Solder resist

| Style | a   | b   | c   | d   |
|-------|-----|-----|-----|-----|
| RVC16 | 1.0 | 3.6 | 1.0 | 4.5 |
| RVC20 | 1.2 | 4.0 | 1.5 | 4.3 |



RVC32 TEST SUBSTRATE

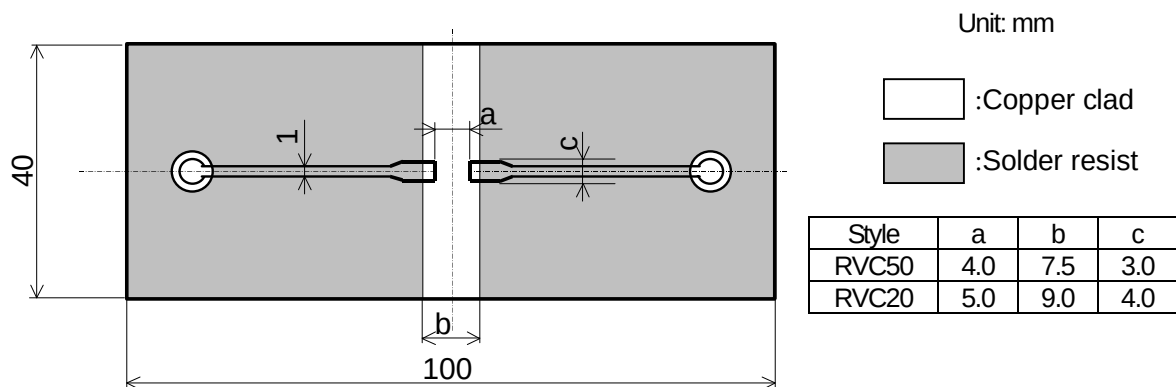
Unit: mm

☐ :Copper clad

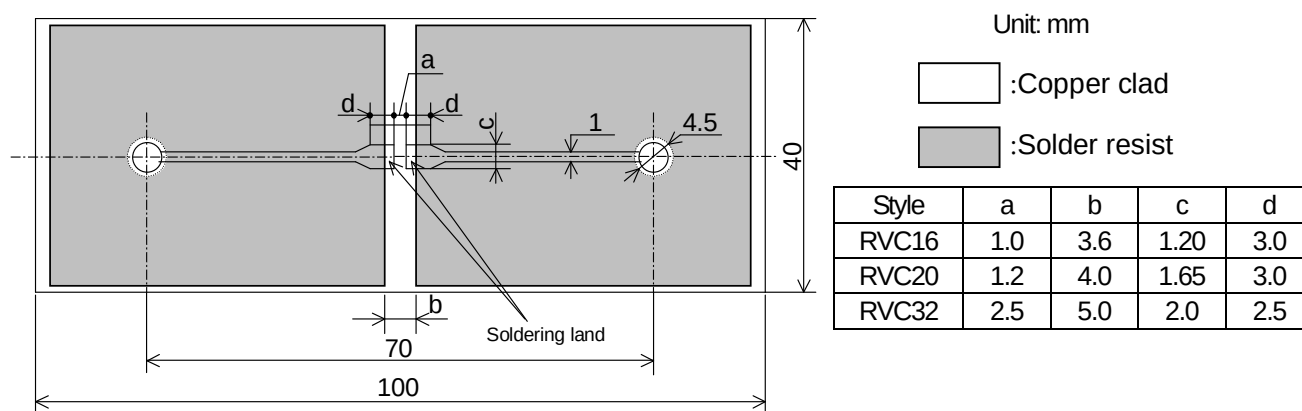
 :Solder resist

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.



RVC50,63 BOUND STRENGTH OF THE END FACE PLATING TEST SUBSTRATE



Remark 1). Material: Epoxide woven glass

Thickness: 1.6mm Thickness of copper clad: 0.035mm

RVC16,20,32 BOUND STRENGTH OF THE END FACE PLATING TEST SUBSTRATE

Figure-4

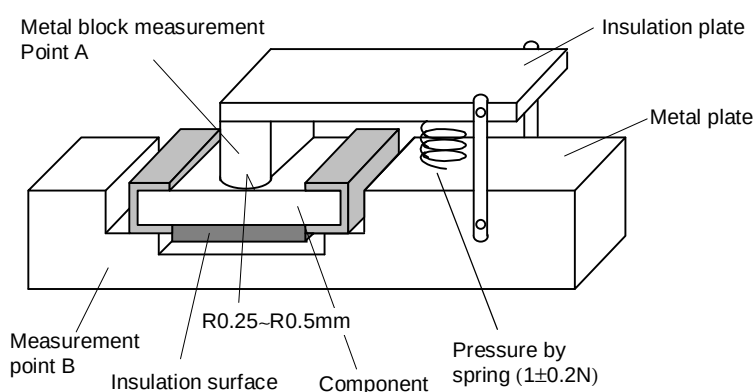


Figure-5

## 9. Taping

9.1 Applicable documents JIS C 0806-3: 1999, EIAJ ET-7200B: 2003

## 9.2 Taping dimensions

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

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

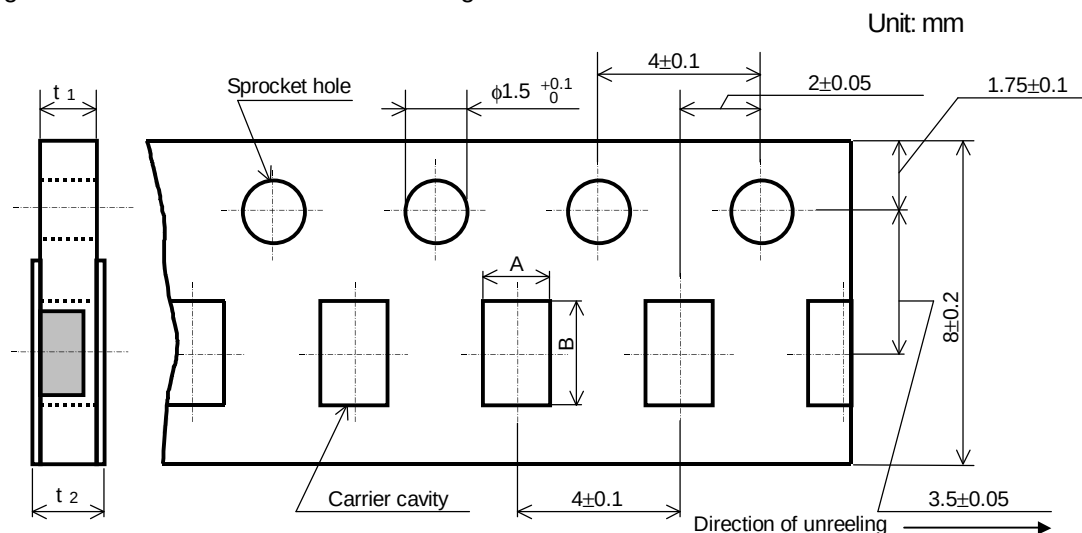


Figure-6

Table-5

Unit: mm

| Style | A         | B       | t <sub>1</sub> | t <sub>2</sub> |
|-------|-----------|---------|----------------|----------------|
| RVC16 | 1.15±0.15 | 1.9±0.2 | 0.6±0.1        | 0.8max.        |
| RVC20 | 1.65±0.15 | 2.5±0.2 | 0.8±0.1        | 1.0max.        |
| RVC32 | 2.00±0.15 | 3.6±0.2 |                |                |

9.2.2 Embossed taping dimensions shall be in accordance with Figure-7 and Table-6.

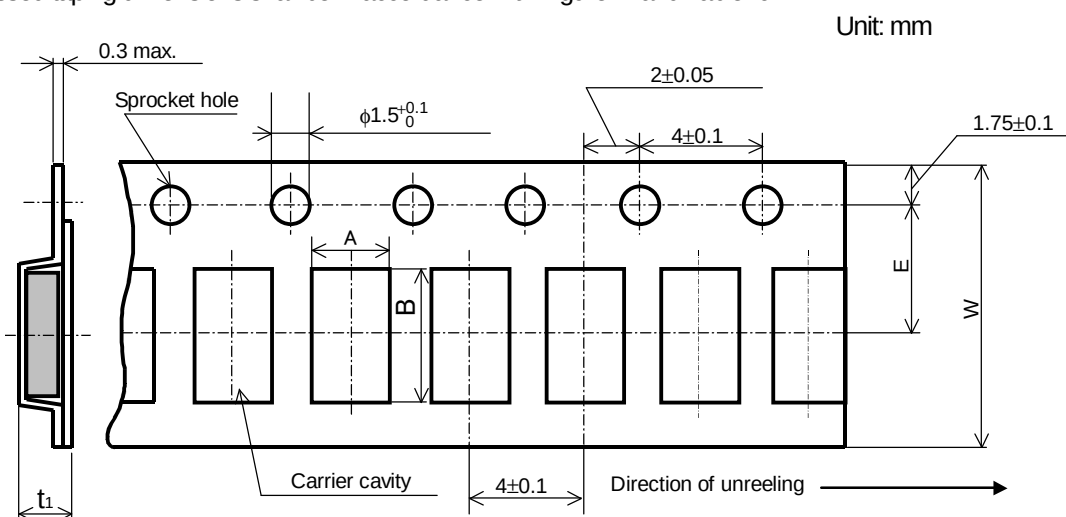


Figure-7

Table-6

Unit: mm

| Style | A       | B       | W        | E        | t <sub>1</sub> |
|-------|---------|---------|----------|----------|----------------|
| RVC50 | 3.1±0.2 | 5.5±0.2 | 12.0±0.3 | 5.5±0.05 | 1.1±0.15       |
| RVC63 | 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  $\pm 0.2\text{mm}$ .
- 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 RVC16,20,32: Figure-8, RVC50,63: Figure-9.
- 6). When the tape is bent with the minimum radius for RVC16,20,32: 25 mm, or RVC50,63: 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.

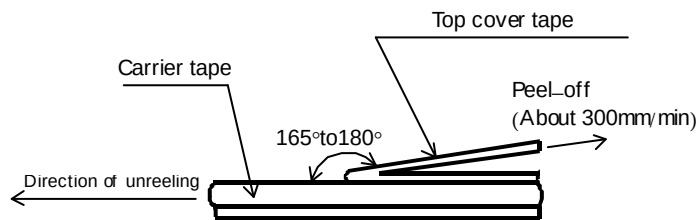


Figure-8

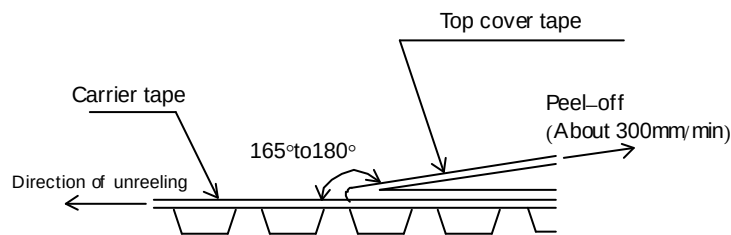


Figure-9

### 9.3 Reel dimension

Reel dimensions shall be in accordance with the following Figure-10 and Table-7.

Plastic reel (Based on EIAJ ET-7200B)

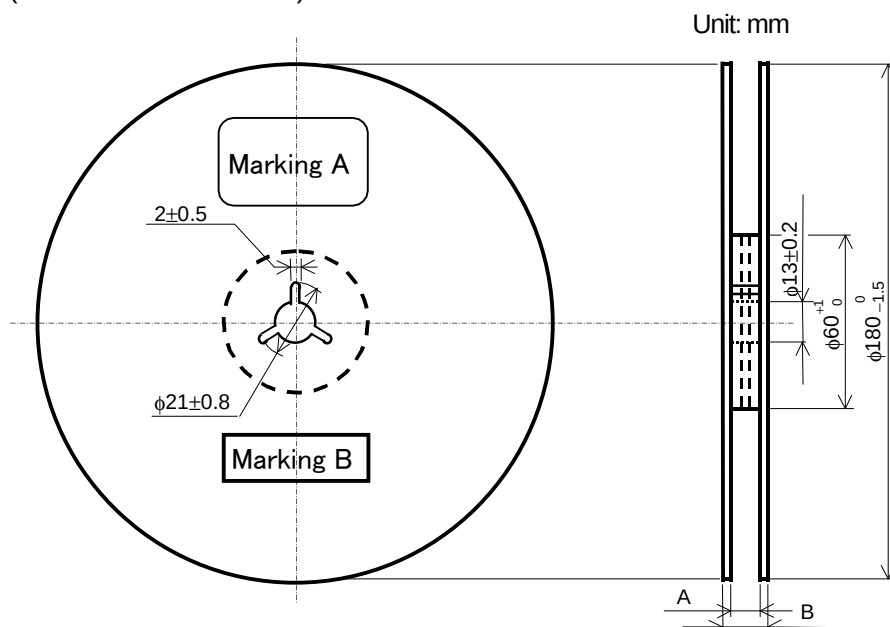


Figure-10

Table-7

Unit: mm

| Style       | A                                                    | B        | Note              |
|-------------|------------------------------------------------------|----------|-------------------|
| RVC16,20,32 | 9 $\begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$  | 11.4±1.0 | Injection molding |
|             |                                                      | 13±1.0   | Vacuum forming    |
| RVC50,63    | 13 $\begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$ | 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)

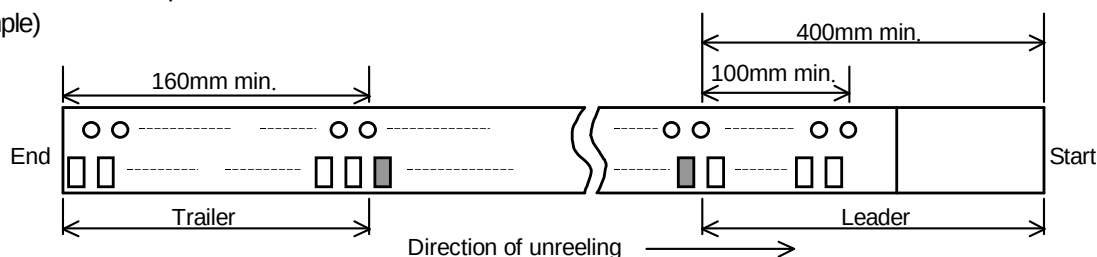


Figure-11

## 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:](#)

[RVC32K304FTP](#) [RVC50K105FTE](#) [RVC32K305FTP](#) [RVC32K125FTP](#) [RVC32K225FTP](#) [RVC20K390FTP](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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