KAMAYA OHM

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|---|---|
| No.: | RGC-K-HTS-0001 /13 |
| Date: | 2017. 4. 21 |

# Data sheet

Title: FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE & PRECISION

Style: RGC1/32,1/20,1/16S,1/16,1/10,1/8

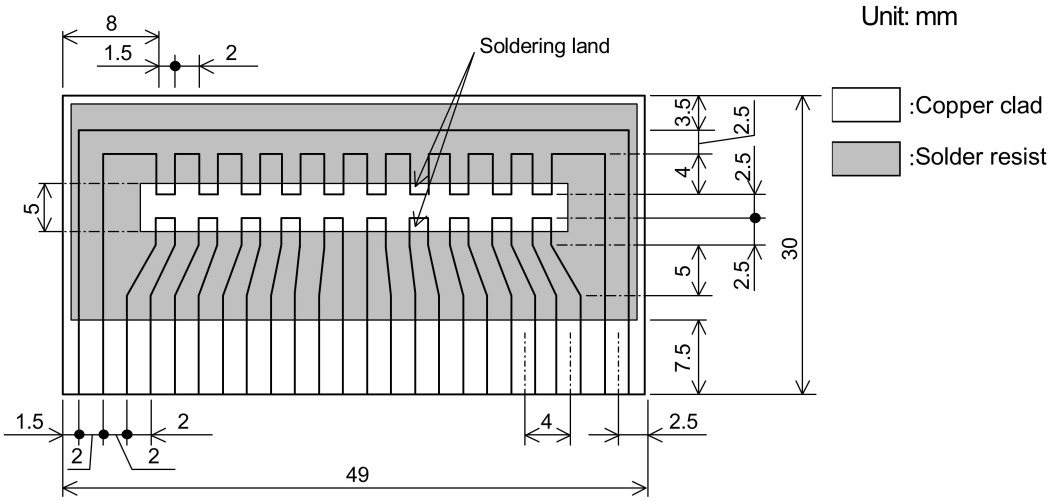
AEC-Q200 qualified (Without RGC1/32)

RoHS COMPLIANCE ITEM
Halogen and Antimony Free

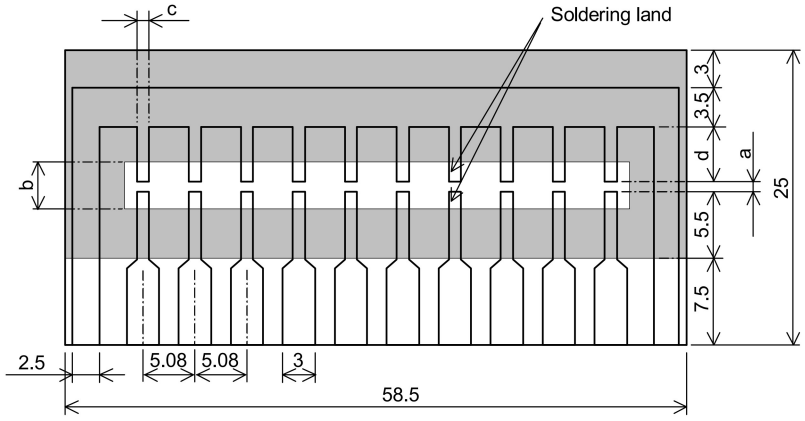
Note: ・Stock conditions
Temperature: +5°C ~ +35°C
Relative humidity: 25% ~ 75%
The period of guarantee: Within 2 year from shipmen t by the company.
Solderability shall be satisfied.
・Product specification contained in this data sheet
are subject to change at any time without notice.
・If you have any 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

8. Test substrate




RGC1/8 TEST SUBSTRATE



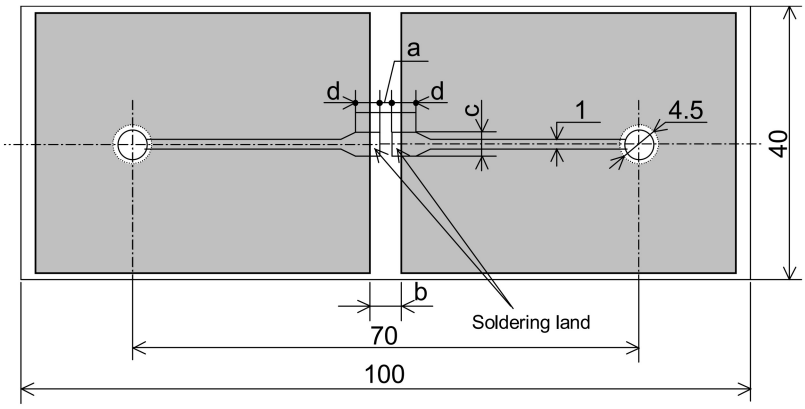

| Style | a | b | c | d |
|---|---|---|---|---|
| RGC1/32 | 0.2 | 0.56 | 0.2 | 5.3 |
| RGC1/20 | 0.3 | 1.5 | 0.45 | 5.2 |
| RGC1/16S | 0.6 | 1.9 | 0.7 | 4.9 |
| RGC1/16 | 1.0 | 3.6 | 1.0 | 4.5 |
| RGC1/10 | 1.2 | 4.0 | 1.5 | 4.3 |

RGC1/32,1/20,1/16S,1/16,1/10 TEST SUBSTRATE

Figure–3

Remark 1). Material: Epoxide woven glass
Thickness: 1.6mm Thickness of copper clad: 0.035mm

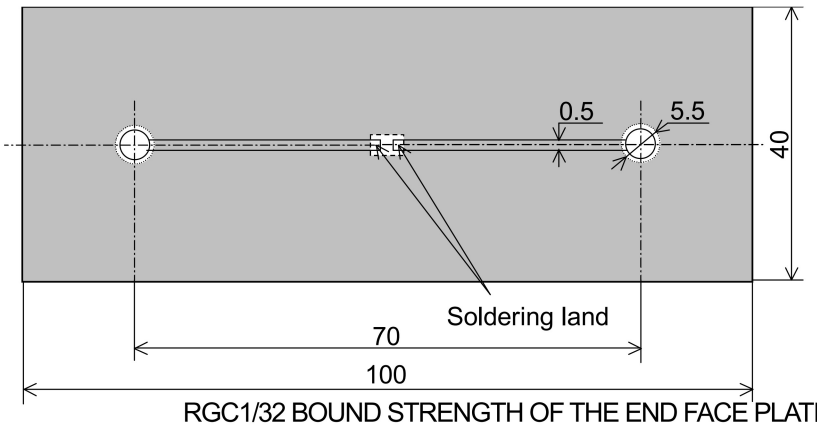
2). In the case of connection by connector, the connecting terminals are gold plated.
However, the plating is not necessary when the connection is made by soldering.



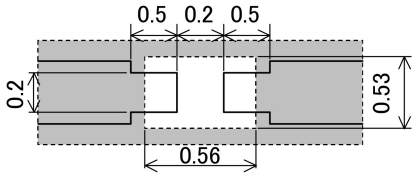

Unit: mm
:Copper clad
:Solder resist

| Style | a | b | c | d |
|---|---|---|---|---|
| RGC1/20 | 0.3 | 1.1 | 0.45 | 2.15 |
| RGC1/16S | 0.6 | 1.9 | 0.7 | 2.0 |
| RGC1/16 | 1.0 | 3.6 | 1.2 | 3.0 |
| RGC1/10 | 1.2 | 4.0 | 1.65 | 3.0 |
| RGC1/8 | 2.5 | 5.0 | 2.0 | 2.5 |

RGC BOUND STRENGTH OF THE END FACE PLATING TEST SUBSTRATE




Unit: mm
:Copper clad
:Solder resist

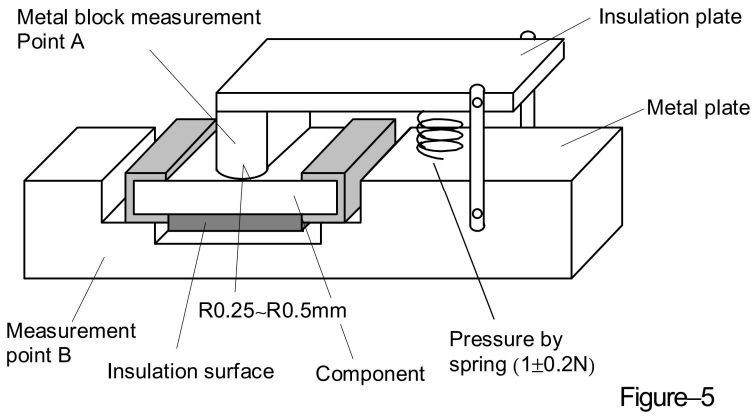



RGC1/32 BOUND STRENGTH OF THE END FACE PLATING TEST SUBSTRATE

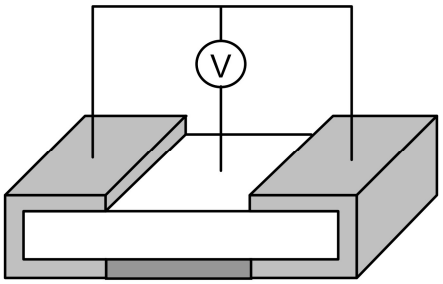
Figure–4

Remark 1). Material: Epoxide woven glass
Thickness: 1.6mm Thickness of copper clad: 0.035mm

• RGC1/16S,1/16,1/10,1/8




•RGC1/32,1/20




Figure–5

9. Taping

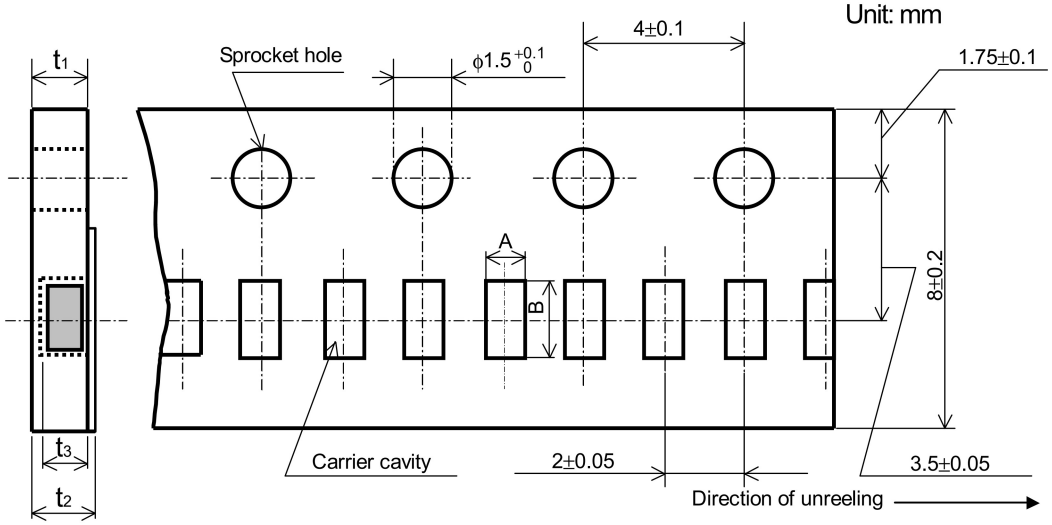
9.1 Applicable documents JIS C 0806–3: 2014, EIAJ ET–7200C: 2010

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.

Unit: mm




Figure–6

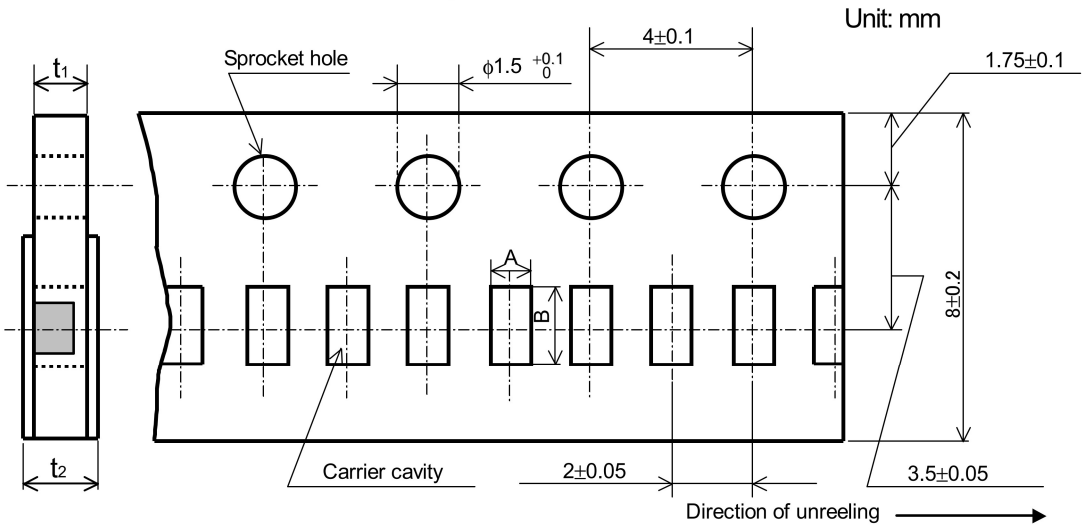
Table–5 Unit: mm

| Style | A | B | $t_1$ | $t_2$ | $t_3$ |
|---|---|---|---|---|---|
| RGC1/32 | 0.24±0.03 | 0.45±0.03 | 0.31±0.03 | 0.36±0.03 | 0.15±0.02 |
| RGC1/20 | 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.

Unit: mm




Figure–7

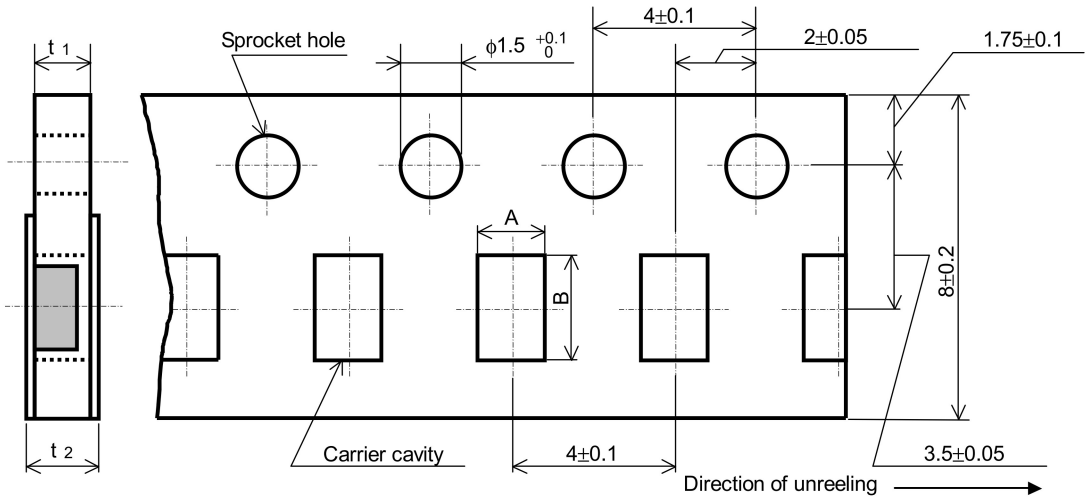
Table–6 Unit: mm

| Style | A | B | $t_1$ | $t_2$ |
|---|---|---|---|---|
| RGC1/16S | $0.65^{+0.05}_{-0.10}$ | $1.15^{+0.05}_{-0.10}$ | 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.

Unit: mm

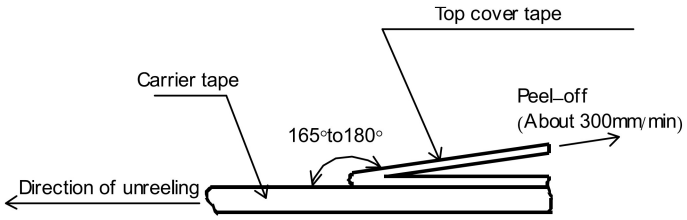



Figure–8

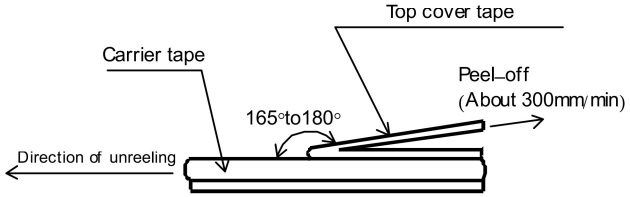
Table–7 Unit: mm

| Style | A | B | $t_1$ | $t_2$ |
|---|---|---|---|---|
| RGC1/16 | 1.15 ± 0.15 | 1.9 ± 0.2 | 0.6 ± 0.1 | 0.8max. |
| RGC1/10 | 1.65 ± 0.15 | 2.5 ± 0.2 | 0.8 ± 0.1 | 1.0max. |
| RGC1/8 | 2.00 ± 0.15 | 3.6 ± 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 RGC1/32,1/20: Figure–9, RGC1/16S, 1/16, 1/10, 1/8: 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.




Figure–9

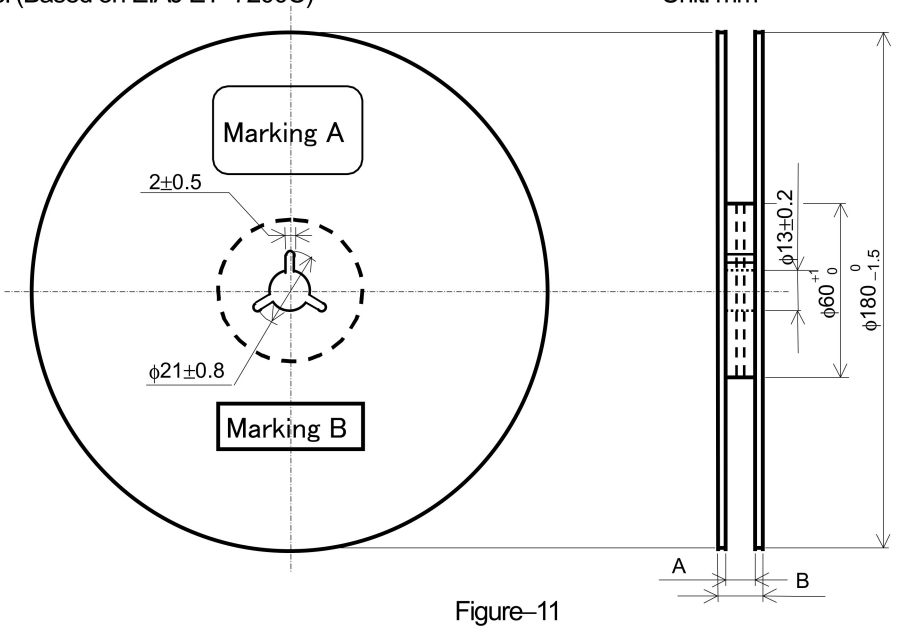



Figure–10

9.3 Reel dimension

Reel dimensions shall be in accordance with the following Figure–11 and Table–8.

Plastic reel (Based on EIAJ ET–7200C) Unit: mm




Figure–11

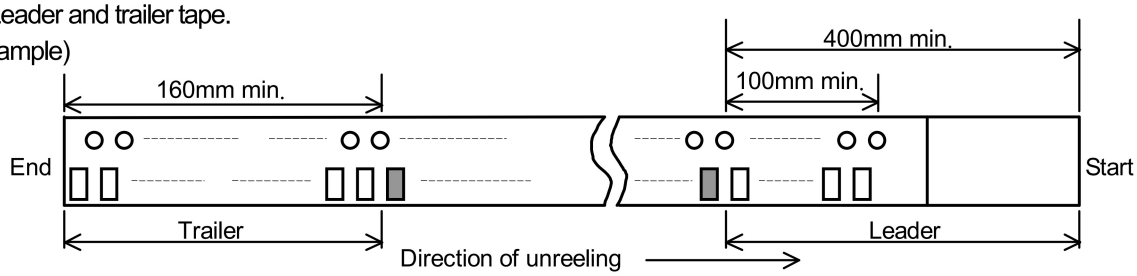
Table–8 Unit: mm

| Style | A | B | Note |
|---|---|---|---|
| RGC1/32,1/20,1/16S,1/16,1/10,1/8 | 9 +1.0 0 | 11.4±1.0 | Injection molding |
| | | 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.

9.4 Leader and trailer tape.

(Example)




Figure–12

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)