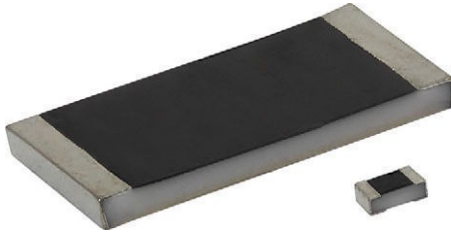


Sulfur Resistant, Pulse Proof, High Power Thick Film Chip Resistors



The sulfur resistant, high power thick film chip resistors series combines the capability to stand harsh environment operation with high power rating and excellent pulse load performance, being the perfect choice for power measurement electronics.

FEATURES

- Superior resistance against sulfur containing atmosphere, according to ASTM B809-95
- Excellent pulse load capability
- Enhanced power rating
- Double sided printed resistor element
- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE

APPLICATIONS

- Automotive
- Industrial
- Commercial
- High power
- Harsh environmental

| TECHNICAL SPECIFICATIONS | | | | | | | | |
|--|--------------------------|------------------|------------------|-----------------------|------------------|------------------|------------------|------------------|
| DESCRIPTION | RCA0402-HP e3 | RCA0603-HP e3 | RCA0805-HP e3 | RCA1206-HP e3 | RCA1210-HP e3 | RCA1218-HP e3 | RCA2010-HP e3 | RCA2512-HP e3 |
| Imperial size | 0402 | 0603 | 0805 | 1206 | 1210 | 1218 | 2010 | 2512 |
| Metric size code | RR1005M | RR1608M | RR2012M | RR3216M | RR3225M | RR3246M | RR5025M | RR6332M |
| Resistance range | 1 Ω to 1 MΩ | | | | | | | |
| Resistance tolerance | ± 5 %; ± 1 % | | | | | | | |
| Temperature coefficient | ± 200 ppm/K; ± 100 ppm/K | | | | | | | |
| Rated dissipation, P_{70} ⁽¹⁾ | 0.2 W ⁽²⁾ | 0.33 W | 0.5 W | 0.75 W ⁽³⁾ | 0.75 W | 1.5 W | 1.0 W | 1.5 W |
| Operating voltage, U_{max} , AC _{RMS} /DC | 50 V | 75 V | 150 V | 200 V | 200 V | 200 V | 400 V | 500 V |
| Permissible film temperature, $\vartheta_{F max}$. ⁽¹⁾ | 155 °C | | | | | | | |
| Operating temperature range | -55 °C to +155 °C | | | | | | | |
| Max. resistance change at P_{70} for resistance range, $ \Delta R/R $ after: | | | | | | | | |
| 1000 h | ≤ 2.0 % | | | | | | | |
| 8000 h | ≤ 4.0 % | | | | | | | |
| Permissible voltage against ambient (insulation): | | | | | | | | |
| 1 min, U_{ins} | 75 V | 100 V | 200 V | 300 V | 300 V | 300 V | 300 V | 300 V |

Notes

- (1) Please refer to APPLICATION INFORMATION below
 (2) RCA0402-HP resistors feature a single side printed resistive layer only
 (3) Specified power rating requires a thermal resistance of $R_{th} = 110$ K/W

APPLICATION INFORMATION

When the resistor dissipates power, a temperature rise above the ambient temperature occurs, dependent on the thermal resistance of the assembled resistor together with the printed circuit board. The rated dissipation applies only if the permitted film temperature is not exceeded.

These resistors do not feature a limited lifetime when operated within the permissible limits. However, resistance value drift increasing over operating time may result in exceeding a limit acceptable to the specific application, thereby establishing a functional lifetime.



| TEMPERATURE COEFFICIENT AND RESISTANCE RANGE | | | | |
|--|-------------|-----------|-------------|----------|
| TYPE / SIZE | TCR | TOLERANCE | RESISTANCE | E-SERIES |
| RCA0402-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA0603-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA0805-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA1206-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA1210-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA1218-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA2010-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |
| RCA2512-HP e3 | ± 200 ppm/K | ± 5 % | 1 Ω to 1 MΩ | E24 |
| | ± 100 ppm/K | ± 1 % | 1 Ω to 1 MΩ | E24; E96 |

| PACKAGING | | | | | | | | |
|---------------|---------------|----------|---|-------|-------|----------------------|-------------------|-------------------|
| TYPE / SIZE | CODE | QUANTITY | PACKAGING STYLE | WIDTH | PITCH | PACKAGING DIMENSIONS | | |
| RCA0402-HP e3 | ED = ET7 | 10 000 | Paper tape acc. to IEC 60286-3, type 1a | 8 mm | 2 mm | Ø 180 mm / 7" | | |
| | EE = EF4 | 50 000 | | | | Ø 330 mm / 13" | | |
| RCA0603-HP e3 | EI = ET2 | 5000 | | | 4 mm | 2 mm | Ø 180 mm / 7" | |
| | ED = ET3 | 10 000 | | | | | Ø 180 mm / 7" | |
| | EL = ET4 | 20 000 | | | | Ø 285 mm / 11.25" | | |
| | EE = ET8 | 20 000 | | | | Ø 330 mm / 13" | | |
| | EA = ET1 | 5000 | | | | 4 mm | Ø 180 mm / 7" | |
| | EB = ET5 | 10 000 | | | | | Ø 285 mm / 11.25" | |
| RCA0805-HP e3 | EC = ET6 | 20 000 | | | 4 mm | Ø 330 mm / 13" | | |
| | RCA1206-HP e3 | EA = ET1 | | | | 5000 | 4 mm | Ø 180 mm / 7" |
| | | EB = ET5 | | | | 10 000 | | Ø 285 mm / 11.25" |
| RCA1210-HP e3 | EC = ET6 | 20 000 | | | 4 mm | Ø 330 mm / 13" | | |
| | EA = ET1 | 5000 | | | | Ø 180 mm / 7" | | |
| RCA1218-HP e3 | EB = ET5 | 10 000 | | | 4 mm | Ø 285 mm / 11.25" | | |
| | EC = ET6 | 20 000 | Ø 330 mm / 13" | | | | | |
| RCA1218-HP e3 | EK = ET9 | 4000 | Blister tape acc. to IEC 60286-3, type 2a | 12 mm | 4 mm | Ø 180 mm / 7" | | |
| RCA2010-HP e3 | EF = E02 | 4000 | | | 4 mm | Ø 180 mm / 7" | | |
| RCA2512-HP e3 | EG = E67 | 2000 | | | 8 mm | Ø 180 mm / 7" | | |
| | EH = E82 | 4000 | | | 4 mm | | | |



| PART NUMBER AND PRODUCT DESCRIPTION | | | | | | | | | | | | | | | | |
|--|--|--|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number: RCA0603562RFKEAHP | | | | | | | | | | | | | | | | |
| R | C | A | 0 | 6 | 0 | 3 | 5 | 6 | 2 | R | F | K | E | A | H | P |
| TYPE / SIZE | VALUE | TOLERANCE | TCR | PACKAGING | SPECIAL | | | | | | | | | | | |
| RCA0402 RCA0603 RCA0805 RCA1206 RCA1210 RCA1218 RCA2010 RCA2512 | R = decimal K = thousand M = million | F = ± 1 % J = ± 5 % | K = ± 100 ppm/K N = ± 200 ppm/K | EA EB EC ED EE EF EG EI EH EK EL | Up to 2 digits HP = pulse proof, high power | | | | | | | | | | | |
| Product Description: RCA0603-HP 100 562R 1 % ET1 e3 | | | | | | | | | | | | | | | | |
| RCA0603-HP | 100 | 562R | 1 % | ET1 | e3 | | | | | | | | | | | |
| TYPE / SIZE | TCR | RESISTANCE | TOLERANCE | PACKAGING | LEAD (Pb)-FREE | | | | | | | | | | | |
| RCA0402-HP RCA0603-HP RCA0805-HP RCA1206-HP RCA1210-HP RCA1218-HP RCA2010-HP RCA2512-HP | ± 100 ppm/K ± 200 ppm/K | 10R = 10 Ω 562R = 562 Ω 10K = 10 kΩ 1M = 1 MΩ | ± 1 % ± 5 % | ET1, ET2, ET3, ET4, ET5, ET6, ET7, ET8, ET9, EF4, E02, E67, E82 | e3 = pure tin termination finish | | | | | | | | | | | |



DESCRIPTION

Production is strictly controlled and follows an extensive set of instructions established for reproducibility. A cermet film layer and a glass-over are deposited on both sides of a high grade (Al₂O₃) ceramic substrate with its prepared inner contacts on both sides. A special laser is used to achieve the target value by smoothly fine trimming the resistive layer without damaging the ceramics. A special process is used to ensure resistor long term operation in harsh environment (sulfur atmosphere). The resistor elements are covered by a protective coating designed for electrical, mechanical and climatic protection. The terminations receive a final pure tin on nickel plating.

The result of the determined production is verified by an extensive testing procedure on 100 % of the individual chip resistors. Only accepted products are laid directly into the tape in accordance with **IEC 60286-3 Type 1a and Type 2a** ⁽¹⁾.

ASSEMBLY

The resistors are suitable for processing on automatic SMD assembly systems. They are suitable for automatic soldering wave, reflow or vapor phase as shown in **IEC 61760-1** ⁽¹⁾. The encapsulation is resistant to all cleaning solvents commonly used in the electronics industry, including alcohols, esters and aqueous solutions. The suitability of conformal coatings, potting compounds and their processes, if applied, shall be qualified by appropriate means to ensure the long-term stability of the whole system.

The resistors are RoHS-compliant, the pure tin plating provides compatibility with lead (Pb)-free and lead-containing soldering processes. Solderability is specified for 2 years after production or requalification. The permitted storage time is 20 years. The immunity of the plating against tin whisker growth has been proven under extensive testing.

MATERIALS

Vishay acknowledges the following systems for the regulation of hazardous substances:

- IEC 62474, Material Declaration for Products of and for the Electrotechnical Industry, with the list of declarable substances given therein ⁽²⁾
- The Global Automotive Declarable Substance List (GADSL) ⁽³⁾

Notes

- ⁽¹⁾ The quoted IEC standards are also released as EN standards with the same number and identical contents
- ⁽²⁾ The IEC 62474 list of declarable substances is maintained in a dedicated database, which is available at <http://std.iec.ch/iec62474>
- ⁽³⁾ The Global Automotive Declarable Substance List (GADSL) is maintained by the American Chemistry Council and available at www.gadsl.org
- ⁽⁴⁾ The SVHC list is maintained by the European Chemical Agency (ECHA) and available at <http://echa.europa.eu/candidate-list-table>

- The REACH regulation (1907/2006/EC) and the related list of substances with very high concern (SVHC) ⁽⁴⁾ for its supply chain

The products do not contain any of the banned substances as per IEC 62474, GADSL, or the SVHC list, see www.vishay.com/how/leadfree.

Hence the products fully comply with the following directives:

- 2000/53/EC End-of-Life Vehicle Directive (ELV) and Annex II (ELV II)
- 2011/65/EU Restriction of the Use of Hazardous Substances Directive (RoHS) with amendment 2015/863/EU
- 2012/19/EU Waste Electrical and Electronic Equipment Directive (WEEE)

Vishay pursues the elimination of conflict minerals from its supply chain, see the Conflict Minerals Policy at www.vishay.com/doc?49037.

APPROVALS

The resistors are qualified according to AEC-Q200.

Where applicable, the resistors are tested in accordance with **EN 14041-802** which refers to **EN 60115-1**, **EN 60115-8** and the variety of environmental test procedures of the **IEC 60068** ⁽¹⁾ series.

RELATED PRODUCTS

For more information about products for non-sulfur-containing environment applications, but with superior pulse performance please refer to datasheet: D/CRCW-HP e3, Pulse Proof, High Power Thick Film Chip Resistors

www.vishay.com/doc?20043.

For thick film resistors with standard requirements for power rating, please refer to datasheet:

D/CRCW e3, Standard Thick Film Chip

www.vishay.com/doc?20035.

For anti-surge products and high power rating, please refer to datasheet:

RCS e3, Anti-Surge High Power Thick Film Chip Resistors

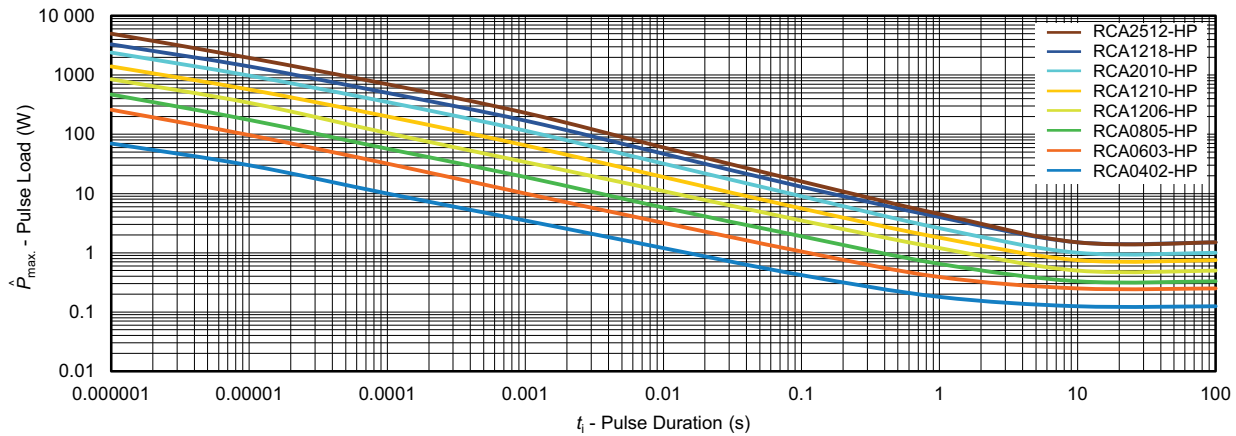
www.vishay.com/doc?20065.



FUNCTIONAL PERFORMANCE

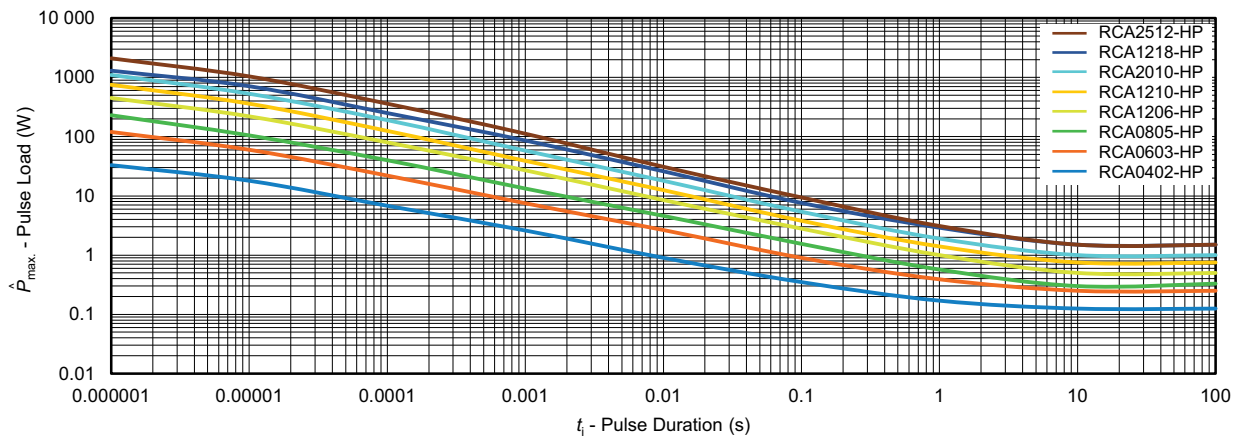
| PERFORMANCE IN SULFUR-CONTAINING AMBIANCE | | |
|--|---|---|
| TEST NAME | HUMID SULFUR VAPOR TEST | HUMID SULFUR VAPOR TEST (Accelerated) |
| Reference specification | ASTM B809-95 | ASTM B809-95 accelerated conditions |
| Test conditions (temperature, humidity) | 60 °C ± 2 °C 85 % ± 4 % RH | 90 °C ± 2 °C 74 % ± 7 % RH |
| Aggressive agent | Sulfur (saturated vapor) | Sulfur (saturated vapor) |
| Failure criteria in VI under magnification | No silver sulfide growth at the interface between termination and protective overcoat. No signs of mechanical damage. | No silver sulfide growth at the interface between termination and protective overcoat. No signs of mechanical damage. |
| Failure criteria in electrical test | ≤ (± 1 % R + 0.05 Ω) | ≤ (± 1 % R + 0.05 Ω) |
| Time before failure | 8000 h | 1000 h |

Single Pulse



Maximum pulse load, single pulse; applicable if $\bar{P} \rightarrow 0$ and $n < 1000$ and $\hat{U} \leq \hat{U}_{max}$; for permissible resistance change equivalent to 8000 h operation

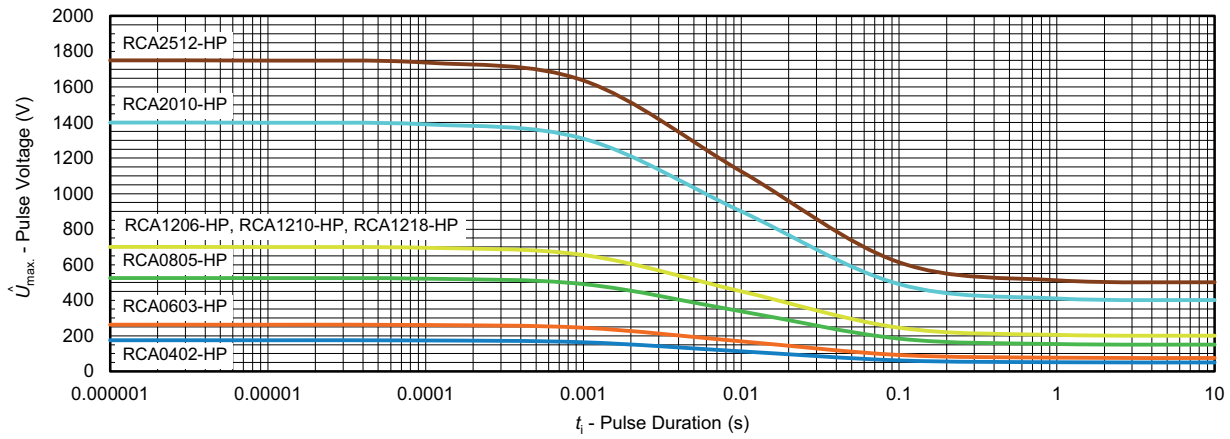
Continuous Pulse



Maximum pulse load, continuous pulses; applicable if $\bar{P} \leq P(\theta_{amb})$ and $\hat{U} \leq \hat{U}_{max}$; for permissible resistance change equivalent to 8000 h operation

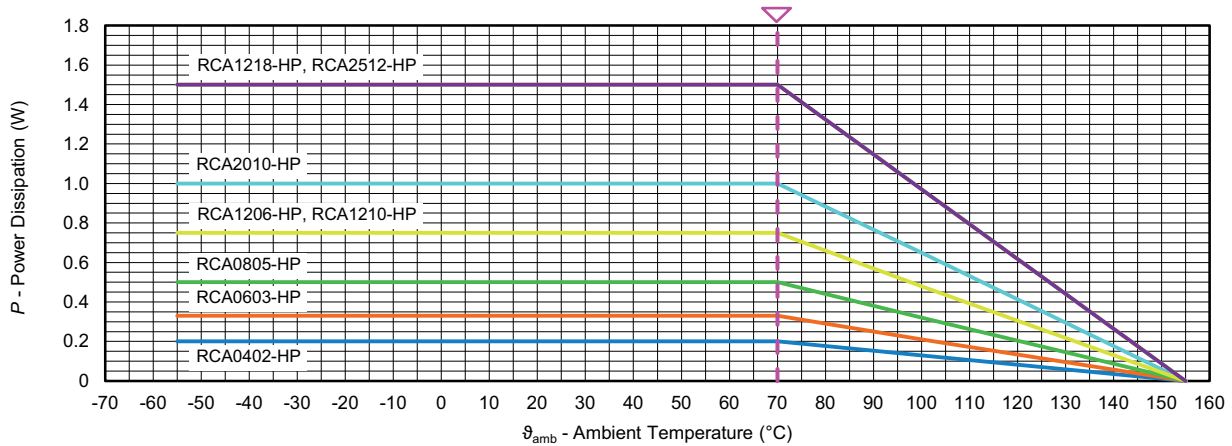


Pulse Voltage



Maximum pulse voltage, single and continuous pulses; applicable if $\hat{P} \leq \hat{P}_{max}$. ; for permissible resistance change equivalent to 8000 h operation

Derating





TESTS AND REQUIREMENTS

All executed tests are carried out in accordance with the following specifications:

- EN 60115-1, generic specification
- EN 60115-8 (successor of EN 140400), sectional specification
- EN 140401-802, detail specification
- IEC 60068-2-xx, test methods

The parameters stated in the Test Procedures and Requirements table are based on the required tests and permitted limits of EN 140401-802. The table presents only the most important tests, for the full test schedule refer to the documents listed above. However, some additional tests and a number of improvements against those minimum requirements have been included.

The testing also covers most of the requirements specified by EIA/IS-703 and JIS-C-5201-1.

The tests are carried out under standard atmospheric conditions in accordance with IEC 60068-1, 4.3, whereupon the following values are applied:

- Temperature: 15 °C to 35 °C
- Relative humidity: 25 % to 75 %
- Air pressure: 86 kPa to 106 kPa (860 mbar to 1060 mbar).

A climatic category LCT / UCT / 56 is applied, defined by the lower category temperature (LCT), the upper category temperature (UCT), and the duration of exposure in the damp heat, steady state test (56 days).

The components are mounted for testing on boards in accordance with EN 60115-8, 2.4.2 unless otherwise specified.

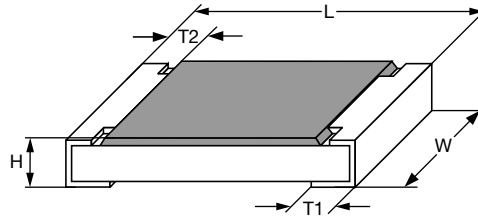
| TEST PROCEDURES AND REQUIREMENTS | | | | |
|----------------------------------|-----------------------------|---|---|--|
| EN 60115-1 CLAUSE | IEC 60068-2 (1) TEST METHOD | TEST | PROCEDURE | REQUIREMENTS PERMISSIBLE CHANGE (ΔR) |
| | | | Stability for product types: | STABILITY CLASS 2 OR BETTER |
| | | | RCA-HP e3 | 1 Ω to 1 MΩ |
| 4.5 | - | Resistance | - | ± 1 %; ± 5 % |
| 4.8 | - | Temperature coefficient | (20 / -55 / 20) °C and (20 / 155 / 20) °C | ± 100 ppm/K; ± 200 ppm/K |
| 4.25.1 | - | Endurance at 70 °C | $U = \sqrt{P_{70} \times R}$ or $U = U_{max.}$; whichever is the less severe; 1.5 h on; 0.5 h off 70 °C; 1000 h 70 °C; 8000 h | ± (2 % R + 0.1 Ω) ± (4 % R + 0.1 Ω) |
| 4.25.3 | - | Endurance at upper category temperature | 155 °C, 1000 h | ± (2 % R + 0.1 Ω) |
| 4.24 | 78 (Cab) | Damp heat, steady state | (40 ± 2) °C; 56 days; (93 ± 3) % RH; | ± (1 % R + 0.05 Ω) |
| 4.37 | 67 (Cy) | Damp heat, steady state, accelerated | (85 ± 2) °C; (85 ± 5) % RH; $U = \sqrt{0.1 \times P_{85} \times R} \leq 100$ V; 1000 h | ± (2 % R + 0.1 Ω) |
| 4.23 | - | Climatic sequence: | - | |
| 4.23.2 | 2 (Bb) | dry heat | 125 °C; 16 h | |
| 4.23.3 | 30 (Db) | damp heat, cyclic | 55 °C; 24 h; ≥ 90 % RH; 1 cycle | |
| 4.23.4 | 1 (Ab) | cold | -55 °C; 2 h | |
| 4.23.5 | 13 (M) | low air pressure | 8.5 kPa; 2 h; (25 ± 10) °C | |
| 4.23.6 | 30 (Db) | damp heat, cyclic | 55 °C; 24 h; ≥ 90 % RH; 5 cycles | |
| 4.23.7 | - | DC load | $U = \sqrt{P_{70} \times R} \leq U_{max.}$; 1 min | |
| - | 1 (Aa) | Cold | -55 °C; 2 h | ± (0.5 % R + 0.05 Ω) |



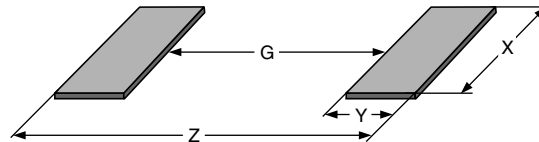
| TEST PROCEDURES AND REQUIREMENTS | | | | |
|----------------------------------|-----------------------------|--|---|--|
| EN 60115-1 CLAUSE | IEC 60068-2 (1) TEST METHOD | TEST | PROCEDURE | REQUIREMENTS PERMISSIBLE CHANGE (ΔR) |
| | | | Stability for product types: | STABILITY CLASS 2 OR BETTER 1 Ω to 1 M Ω |
| | | | RCA-HP e3 | |
| 4.19 | 14 (Na) | Rapid change of temperature | 30 min at -55 °C and 30 min at 125 °C; 1000 cycles | $\pm (1 \% R + 0.05 \Omega)$ no visible damage |
| 4.13 | - | Short time overload | $U = 2.5 \times \sqrt{P_{70} \times R} \leq 2 \times U_{max.}$; whichever is the less severe; 5 s | $\pm (2 \% R + 0.05 \Omega)$ |
| 4.27 | - | Single pulse high voltage overload | Severity no. 4: $U = 10 \times \sqrt{P_{70} \times R}$ or $U = 2 \times U_{max.}$; whichever is the less severe; 10 pulses 10 μ s/700 μ s | $\pm (1 \% R + 0.05 \Omega)$ no visible damage |
| 4.39 | - | Periodic electric overload | $U = \sqrt{15 \times P_{70} \times R}$ or $U = 2 \times U_{max.}$; whichever is the less severe; 0.1 s on; 2.5 s off; 1000 cycles | $\pm (1 \% R + 0.05 \Omega)$ no visible damage |
| 4.38 | - | Electrostatic discharge (human body model) | IEC 61340-3-1 (1); 3 pos. + 3 neg. discharges; ESD voltage acc. to the size | $\pm (1 \% R + 0.05 \Omega)$ |
| 4.22 | 6 (Fc) | Vibration | Endurance by sweeping; 10 Hz to 2000 Hz; no resonance; amplitude ≤ 1.5 mm or ≤ 200 m/s ² ; 7.5 h | $\pm (0.5 \% R + 0.05 \Omega)$ no visible damage |
| 4.17 | 58 (Td) | Solderability | Solder bath method; Sn60Pb40 non-activated flux; (235 \pm 5) °C; (2 \pm 0.2) s | Good tinning (≥ 95 % covered) no visible damage |
| | | | Solder bath method; Sn96.5Ag3Cu0.5 non-activated flux; (245 \pm 5) °C; (3 \pm 0.3) s | |
| 4.18 | 58 (Td) | Resistance to soldering heat | Solder bath method (260 \pm 5) °C; (10 \pm 1) s | $\pm (0.5 \% R + 0.05 \Omega)$ |
| 4.29 | 45 (XA) | Component solvent resistance | Isopropyl alcohol; +50 °C; method 2 | No visible damage |
| 4.32 | 21 (Uu ₃) | Shear (adhesion) | RCA0402-HP: 9 N RCA0603-HP to RCA2512-HP: 17.7 N | No visible damage |
| 4.33 | 21 (Uu ₁) | Substrate bending | Depth 2 mm; 3 times | $\pm (0.25 \% R + 0.05 \Omega)$ no visible damage, no open circuit in bent position |
| 4.7 | - | Voltage proof | $U = 1.4 \times U_{ins}$; 60 s | No flashover or breakdown |
| 4.35 | - | Flammability, needle flame test | IEC 60695-11-5 (1); 10 s | No burning after 30 s |

Note

(1) The quoted IEC standards are also released as EN standards with the same number and identical contents

DIMENSIONS


| DIMENSIONS AND MASS | | | | | | |
|----------------------------|------------|-------------|-------------|-------------|-------------|-----------|
| TYPE / SIZE | L (mm) | W (mm) | H (mm) | T1 (mm) | T2 (mm) | MASS (mg) |
| RCA0402-HP e3 | 1.0 ± 0.05 | 0.5 ± 0.05 | 0.3 ± 0.10 | 0.25 ± 0.10 | 0.2 ± 0.10 | 0.65 |
| RCA0603-HP e3 | 1.6 ± 0.10 | 0.85 ± 0.10 | 0.45 ± 0.10 | 0.3 ± 0.20 | 0.3 ± 0.20 | 2 |
| RCA0805-HP e3 | 2.0 ± 0.15 | 1.25 ± 0.15 | 0.5 ± 0.10 | 0.4 ± 0.20 | 0.35 ± 0.20 | 5.5 |
| RCA1206-HP e3 | 3.1 ± 0.20 | 1.6 ± 0.15 | 0.5 ± 0.15 | 0.5 ± 0.20 | 0.45 ± 0.20 | 10 |
| RCA1210-HP e3 | 3.2 ± 0.20 | 2.5 ± 0.20 | 0.6 ± 0.10 | 0.45 ± 0.20 | 0.4 ± 0.20 | 18 |
| RCA1218-HP e3 | 3.1 ± 0.20 | 4.6 ± 0.20 | 0.6 ± 0.10 | 0.45 ± 0.20 | 0.4 ± 0.20 | 31 |
| RCA2010-HP e3 | 5.0 ± 0.15 | 2.5 ± 0.15 | 0.6 ± 0.10 | 0.6 ± 0.20 | 0.6 ± 0.20 | 25.5 |
| RCA2512-HP e3 | 6.3 ± 0.20 | 3.15 ± 0.15 | 0.6 ± 0.10 | 0.6 ± 0.20 | 0.6 ± 0.20 | 42 |

SOLDER PAD DIMENSIONS


| RECOMMENDED SOLDER PAD DIMENSIONS | | | | | | | | |
|--|----------------|--------|--------|--------|------------------|--------|--------|--------|
| TYPE / SIZE | WAVE SOLDERING | | | | REFLOW SOLDERING | | | |
| | G (mm) | Y (mm) | X (mm) | Z (mm) | G (mm) | Y (mm) | X (mm) | Z (mm) |
| RCA0402-HP e3 | - | - | - | - | 0.45 | 0.6 | 0.6 | 1.65 |
| RCA0603-HP e3 | 0.65 | 1.10 | 1.25 | 2.85 | 0.75 | 0.75 | 1.00 | 2.25 |
| RCA0805-HP e3 | 0.90 | 1.30 | 1.60 | 3.50 | 1.00 | 0.95 | 1.45 | 2.90 |
| RCA1206-HP e3 | 1.40 | 1.40 | 1.95 | 4.20 | 1.50 | 1.05 | 1.8 | 3.60 |
| RCA1210-HP e3 | 1.80 | 1.45 | 2.95 | 4.70 | 1.70 | 1.10 | 2.80 | 3.90 |
| RCA1218-HP e3 | 1.60 | 1.50 | 5.10 | 4.60 | 1.70 | 1.10 | 4.90 | 3.90 |
| RCA2010-HP e3 | 3.60 | 1.65 | 2.85 | 6.90 | 3.70 | 1.20 | 2.70 | 6.10 |
| RCA2512-HP e3 | 4.90 | 1.60 | 3.50 | 8.10 | 5.00 | 1.25 | 3.35 | 7.50 |

Notes

- The given solder pad dimensions reflect the considerations for board design and assembly as outlined e.g in standards IEC 61188-5-x ⁽¹⁾ or in publication IPC-7351.
Still, the given solder pad dimensions will be found adequate for most general applications
- ⁽¹⁾ The quoted IEC standards are also released as EN standards with the same number and identical contents



Disclaimer

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