

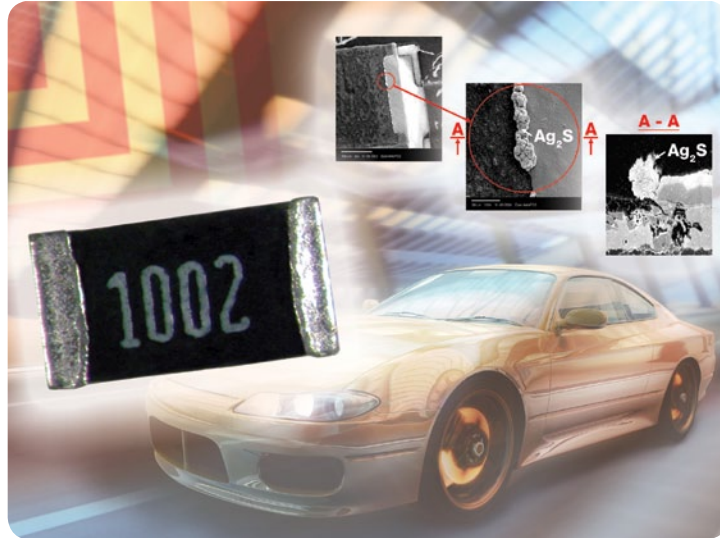


THICK FILM RESISTORS

RCA Series



Automotive Grade, Sulfur Resistant, Thick Film, Rectangular Chip Resistors



KEY BENEFITS

- Superior resistance against H₂S atmosphere
- AEC-Q200 qualified
- Lead (Pb)-bearing versions available too

APPLICATIONS

- Automotive
- Industrial equipment
- General purpose in sulfur environment

RESOURCES

- Datasheet: RCA Series - <http://www.vishay.com/doc?20034>
- Datasheet: RCA e3 Series - <http://www.vishay.com/doc?20037>
- For technical questions contact thickfilmchip@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>

RoHS
COMPLIANT

Resistors - AEC-Q200 Qualified, Sulfur Resistant

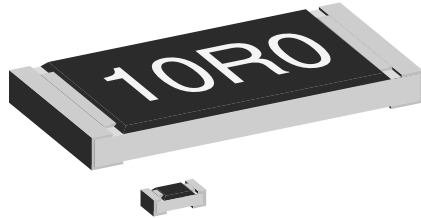
One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

THICK FILM RESISTORS

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FEATURES

- Metal glaze on high quality ceramic with protective overglaze
- Sulfur resistant
- Superior resistance against H₂S-atmosphere than standard Ag contacts
- Solder contacts on Ni barrier layer
- Excellent stability ($\Delta R/R \leq \pm 0.5\%$ for 1000 hours at 70 °C) different environmental conditions
- High volume product suitable for commercial and special applications
- Automotive Grade = sulfur resistant

STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	SIZE		POWER RATING <i>P</i> _{70 °C W}	LIMITING ELEMENT VOLTAGE MAX <i>V</i> _≡	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
	INCH	METRIC	CECC 40401-802/EIA-575					
RCA0402	0402	1005	0.063	50	± 50 ± 100 ± 100 ± 200 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 1 ± 5	100R - 1M0 10R - 1M0 10R - 5M6 1R0 - 9R76 1R0 - 10M	24 + 96 24 + 96 24 + 96 24 + 96 24
RCA0603	0603	1608	0.10	75	± 50 ± 100 ± 200 ± 200	± 0.5, ± 1 ± 0.5, ± 1 ± 1 ± 5	100R - 10M 10R - 10M 1R0 - 9R76 1R0 - 10M	24 + 96 24 + 96 24 + 96 24
RCA0805	0805	2012	0.125	150	± 50 ± 100 ± 100 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 5	100R - 10M 10R - 10M 1R0 - 10M 1R0 - 10M	24 + 96 24 + 96 24 + 96 24
RCA1206	1206	3216	0.25	200	± 50 ± 100 ± 100 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 5	100R - 10M 10R - 10M 1R0 - 10M 1R0 - 10M	24 + 96 24 + 96 24 + 96 24
RCA1210	1210	3225	0.33	200	± 50 ± 100 ± 100 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 5	100R - 1M0 100R - 1M0 1R0 - 1M0 1R0 - 1M0	24 + 96 24 + 96 24 + 96 24
RCA1218	1218	3246	1.0	200	± 50 ± 100 ± 100 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 5	100R - 2M2 100R - 2M2 1R0 - 2M2 1R0 - 2M2	24 + 96 24 + 96 24 + 96 24
RCA2010	2010	5025	0.50	400	± 50 ± 100 ± 100 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 5	100R - 10M 10R - 10M 1R0 - 10M 1R0 - 10M	24 + 96 24 + 96 24 + 96 24
RCA2512	2512	6332	1.0	500	± 50 ± 100 ± 100 ± 200	± 0.5, ± 1 ± 0.5 ± 1 ± 5	100R - 10M 10R - 10M 1R0 - 10M 1R0 - 10M	24 + 96 24 + 96 24 + 96 24

Revision 11-Oct-07

Notes:

- Ask about further value ranges
- Marking and packaging: see appropriate catalog or web pages
- Power rating depends on the max. temperature at the solder point, the component placement density and the substrate material

Resistors - AEC-Q200 Qualified, Sulfur Resistant