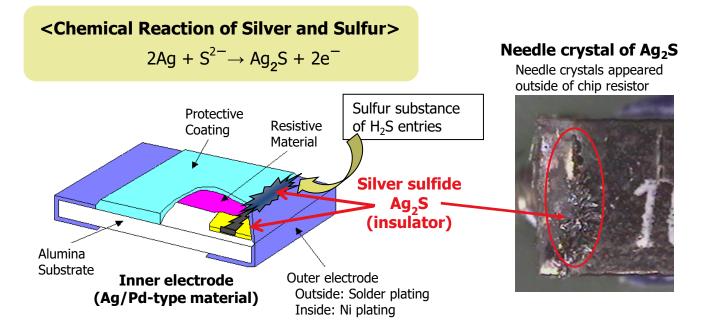
Sulfuration of Resistors

Sulfuration is a phenomenon that the inner electrodes (Ag/Pd-type material) of chip resistors react with sulfur gas which creates silver sulfide.



Sulfuration Phenomenon of Standard Chip Resistors



Examples of Critical Environment

- Oil or grease for machine tools and gears sometimes includes sulfur substances
- Oil with high amount of impurities and exhaust gas after combusting the oil contains sulfur gas
- Rubber products or areas near rubber manufacturing plants
- Where fossil fuels are handled or used
- In case a PCB is molded by rubber sealing which includes sulfur
- In case components which generate sulfur are mounted in the surrounding
- (e.g. molded coatings which includes sulfur)
- Areas where volcanic gases are emitted
- Areas of biological gas cracking plants
- Near waste dumps / waste disposal sites

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KOA's special anti-sulfuration resistors are intended to be used under harsh environment with a high level of sulfur contamination.

A high reliable material with extremely high sulfuration-proof characteristics is used in the inner top electrodes.

Thanks to technical know-how of sulfuration-proof material, KOA has been able to achieve an extremely high level of sulfuration-proof performance.

KOA's Anti-Sulfur Resistors Line-up

Resistors use anti-sulfur material for inner top electrodes **High Power** General High High High Anti-Surge Precision Reliability (Wide Terminal) Purpose Voltage RK73B-RT RK73G-RT RS73-RT SG73 RT WK73S-RT HV73-RT (0603...2512) (0402...1206) (0402...1206) WK73R-RT (0603...2512)RK73H-RT SG73S/P-RT HV73V-RT (0508...1225) RK73Z-RT new (0603...1206) (High precision) (01005...2512) (0402...1210)Low ohm resistors (Current Detection) WK73S-RT SR73-RT (0402 1210) (0508 1225) new

KOA's standard types RK73 and SG73 have equivalent anti-sulfuration characteristics as our competitors "Slow Sulfuration" products.

Anti-sulfuration: RK73_RT series Slow-sulfuration: RK73 series

If it's intended to use products under harsh environment (under high density of sulphur), KOA recommends using the "Anti-Sulfuration Flat Chip Resistors" as a perfect measure.

Features

- Excellent anti-sulfuration characteristic due to using high-sulfuration-proof inner top electrode material
- Available for several standard product series (like RK73, SG73, WK73)
- Intended for use under harsh environment

Application Examples

- Industrial control systems
- Automotive
- Electric instrumentation
- Power meter / conditioner
- Solar / wind inverter circuits
- Avionics

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