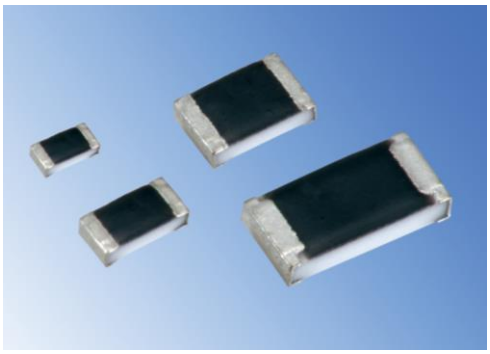
# 200°C Operating Anti-Pulse Chip Resistors

NEW

## HSG73P Series



Datasheet

## Features

- High performance above +155 °C
- Outstanding pulse performance, high power
- 270 W for 10 µs in size 1206
- High component and equipment reliability
- 1 Ω … 10 MΩ
- 1 % or 5 %
- Sn plated electrodes for solder mounting (+175 °C)
- Au plated electrodes for conductive glue mounting (+200 °C)
- AEC-Q200 tested

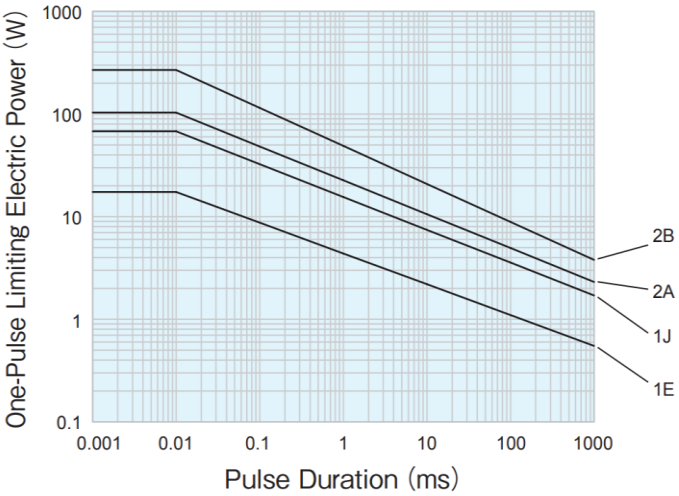
## Application Examples

- Automotive: Power control unit, gear box electronics, engine sensors
- Industrial: Power modules, high temperature electronics, power supplies

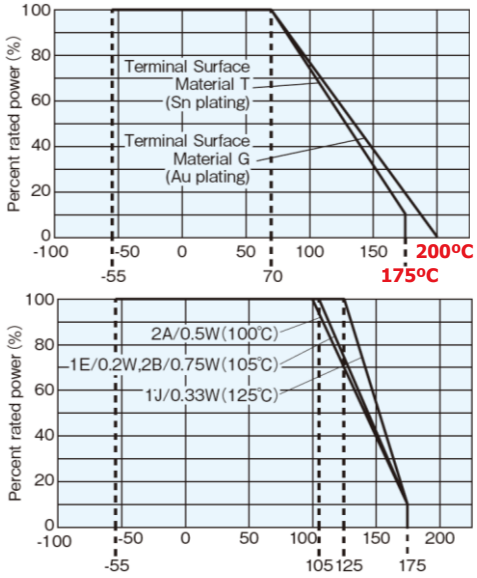
## Power Pulse Tolerant Chip Resistors

The HSG73P series has approx. 7 times pulse handling capability compared to standard flat chip resistors. Due to the special resistance trimming it also allows a higher continuous power rating. This means that existing designs can be 'powered up': An HSG73P device can be dropped onto the pads of a similar sized conventional part, thus increasing the power capability without changing the PCB layout.

## One-Pulse Limiting Electric Power




## Derating Curves




## Ratings (Sn plating type)*1

| Type | Size (Inch) | Power Rating*2 | Rated Ambient Temp. | Rated Terminal Part Temp. | T.C.R (ppm/K) | Resistance Range (E24) | | Max. Working Voltage | Max. Overload Voltage |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | F: ±1 % | J: ±5 % | | |
| HSG73P 1E T | 0402 | 0.2 W | +70 ºC | +105 ºC | ±200 | 10 Ω ~ 1 MΩ | 1 Ω ~ 10 MΩ | 75 V | 100 V |
| HSG73P 1J T | 0603 | 0.33 W | | +125 ºC | | | | 150 V | 200 V |
| HSG73P 2A T | 0805 | 0.5 W | | +100 ºC | | | | 200 V | 400 V |
| HSG73P 2B T | 1206 | 0.75 W | | +105 ºC | | | | | |

*1 Please contact KOA for ratings and ordering code of Au plated products.
*2 If you use at rated power, keep the condition that the terminal of the resistor is below the rated terminal part temp. and refer to derating curves. Please contact KOA for detailed specifications.