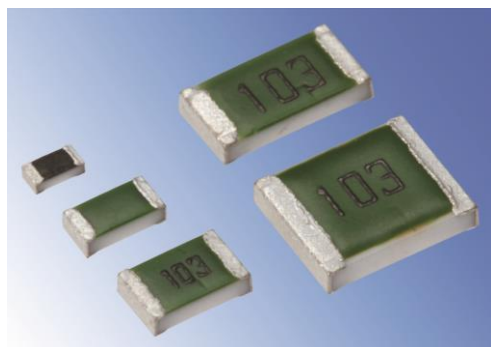


Space Saving Anti-Pulse Chip Resistors



SG73P Series



Features

- Outstanding pulse performance, high power
- Allows e.g. 500 W for 10 μ s in size 1210
- High component and equipment reliability
- 1 Ω ... 10 M Ω , ± 0.5 ... ± 5 %
- T.C.R.: ± 100 ... ± 200 ppm/K
- 5 sizes from 0402 ... 1210 inch
- Operating temperatures up to +155 $^{\circ}$ C
- EU-RoHS compliant, AEC-Q200 tested
- Lab Kits are available
- Anti-Sulfuration type also available



Datasheet

Application Examples

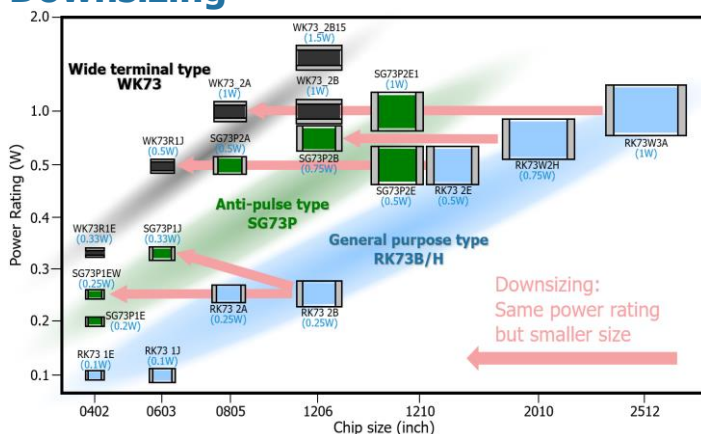
- Automotive electronics
- Power supplies
- Industrial electronics
- Measuring instruments
- Motor control units
- Smart meter
- Power conditioner / inverter
- White goods, etc.

**NEW: SG73P1EW
0402, 0.25 W**

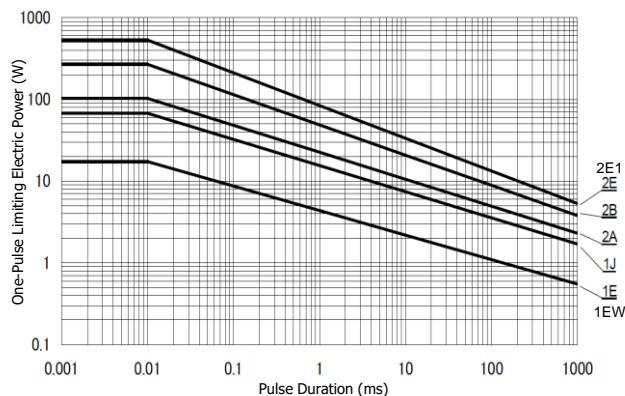
Power Pulse Tolerant Chip Resistors

The SG73P 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 SG73P device can be dropped onto the pads of a similar sized conventional part, thus increasing the power capability without changing the PCB layout.

Downsizing



One-Pulse Limiting Electric Power



Ratings

| Type | Size (Inch) | Power Rating*1 | Rated Ambient Temp. | Rated Terminal Part Temp. | T.C.R. (ppm/K) | Resistance Range E24 & E96 D: ± 0.5 % / F: ± 1 % G: ± 2 % / J: ± 5 % | Max. Working Voltage | Max. Overload Voltage |
|---------------------|-------------|----------------|---------------------|---------------------------|-----------------------|--|----------------------|-----------------------|
| SG73P1E | 0402 | 0.2 W | +70 $^{\circ}$ C | +105 $^{\circ}$ C | ± 200 | 1 Ω ~ 10 M Ω | 75 V | 100 V |
| SG73P1EW NEW | | 0.25 W | | +125 $^{\circ}$ C | ± 100 / ± 200 | | | |
| SG73P1J | 0603 | 0.33 W | | +125 $^{\circ}$ C | ± 100 | | 400 V | 200 V |
| SG73P2A | 0805 | 0.5 W | | +100 $^{\circ}$ C | ± 100 / ± 200 | | | |
| SG73P2B | 1206 | 0.75 W | | +105 $^{\circ}$ C | ± 200 | | 200 V | 400 V |
| SG73P2E | 1210 | 0.75 W | | +110 $^{\circ}$ C | | | | |
| SG73P2E1 | | 1 W | | +95 $^{\circ}$ C | | | | |

*1 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.

*2 800 V possible when power rating is 0.4 W or lower.

Please contact KOA for detailed specifications.

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