Space Saving Anti-Pulse Chip Resistors

SG73P Series

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

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

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

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<tr>
<td>SG73P1E</td>
<td>0402</td>
<td>0.2 W</td>
<td></td>
<td>+105 °C</td>
<td>±200</td>
<td>1 Ω ~ 10 MΩ</td>
<td>75 V</td>
<td>100 V</td>
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<tr>
<td>SG73P1EW</td>
<td>NEW</td>
<td>0.25 W</td>
<td>+70 °C</td>
<td>+125 °C</td>
<td>±100 / ±200</td>
<td>1 Ω ~ 10 MΩ</td>
<td>150 V</td>
<td>200 V</td>
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<tr>
<td>SG73P1J</td>
<td>0603</td>
<td>0.33 W</td>
<td></td>
<td>+125 °C</td>
<td>±100</td>
<td>1 Ω ~ 10 MΩ</td>
<td>400 V</td>
<td>600 V*2</td>
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<tr>
<td>SG73P2A</td>
<td>0805</td>
<td>0.5 W</td>
<td></td>
<td>+100 °C</td>
<td>±100 / ±200</td>
<td>1 Ω ~ 10 MΩ</td>
<td>200 V</td>
<td>400 V</td>
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<td>SG73P2B</td>
<td>1206</td>
<td>0.75 W</td>
<td></td>
<td>+105 °C</td>
<td>±100</td>
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<tr>
<td>SG73P2E</td>
<td>1210</td>
<td>0.75 W</td>
<td></td>
<td>+110 °C</td>
<td>±200</td>
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<td>SG73P2E1</td>
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<td>1 W</td>
<td></td>
<td>+95 °C</td>
<td>±200</td>
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*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.

NEW: SG73P1EW
0402, 0.25 W


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