Space Saving Anti-Pulse Chip Resistors

SG73P Series



Application Examples

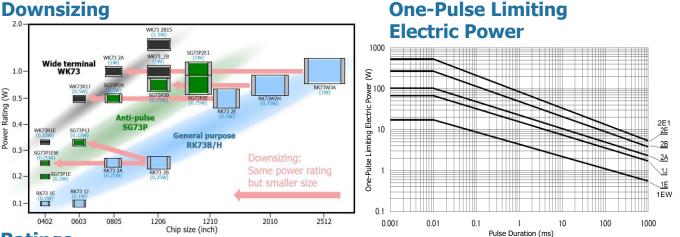
- Automotive electronics
- Power supplies
- Industrial electronics
- Measuring instruments

Features

- Outstanding pulse performance, high power
- Allows e.g. 500 W for 10 µs in size 1210
- High component and equipment reliability
- $1 \Omega ... 10 M\Omega, \pm 0.5 ... \pm 5 \%$
- 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
- 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.



Ratings

Туре	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		+105 °C	±200		75 V	100 V
SG73P1EW NEW		0.25 W		+125 °C	$\pm 100 / \pm 200$		75 V	100 V
SG73P1J	0603 0805 1206	0.33 W	+70 °C	+125 °C	±100	1 Ω ~ 10 MΩ	150 V	200 V
SG73P2A		0.5 W		+100 °C	±100/±200		400 V	600 V*2
SG73P2B		0.75 W		+105 °C			200 V	400 V
SG73P2E	1210	0.75 W		+110 °C	±200			
SG73P2E1		1 W		+95 °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.

Specification given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use. Contact our sales representatives before you use our products for applications including automotive, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage Our privacy policy in its newest form is available at http://koaeurope.de/privacy-policy/





