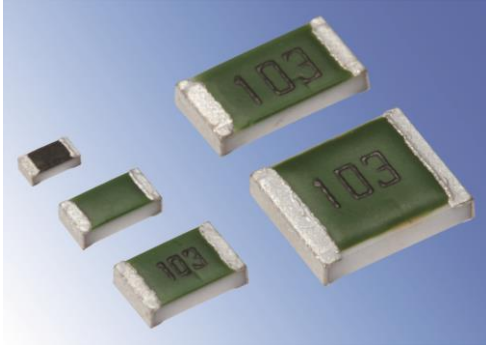


# Space Saving Anti-Pulse Chip Resistors

## SG73P Series



### Features

- Outstanding pulse performance, high power
- Allows e.g. 500 W for 10  $\mu$ s in size 1210
- High component and equipment reliability
- 1  $\Omega$  ... 10 M $\Omega$ ,  $\pm 0.5$  ...  $\pm 5$  %
- T.C.R.:  $\pm 100$  ...  $\pm 200$  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 (RT) also available



**Datasheet**

### Application Examples

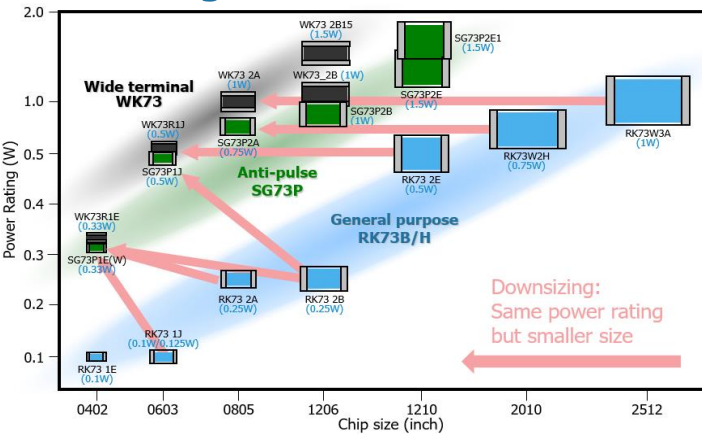
- Automotive electronics
- Power supplies
- Industrial electronics
- Measuring instruments
- Motor control units
- Smart meter
- Power conditioner / inverter
- White goods, etc.

**SG73P1EW  
0402, 0.33 W**

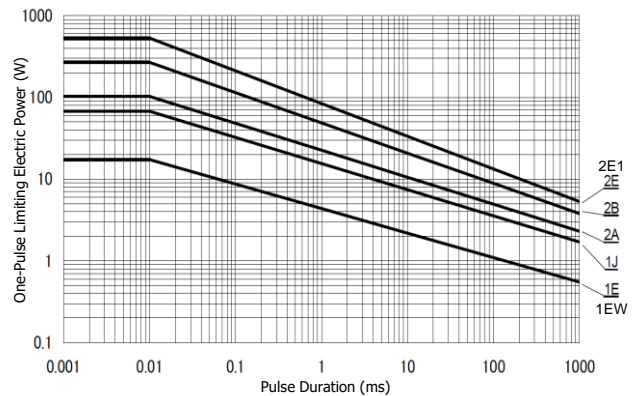
### Power Pulse Tolerant Chip Resistors

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

Increased Power Ratings

Operating Temperature Range: -55 $^{\circ}$ C ... +155 $^{\circ}$ C

Type	Size (Inch)	Power Rating*1	Rated Terminal Part Temp.	T.C.R (ppm/K)	Resistance Range E24 & E96 $\pm 0.5$ % / $\pm 1$ % $\pm 2$ % / $\pm 5$ %	Max. Working Voltage	Max. Overload Voltage
SG73P1E	0402	0.33 W	+105 $^{\circ}$ C	$\pm 200$	1 $\Omega$ ~ 10 M $\Omega$	75 V	100 V
SG73P1EW		0.33 W		$\pm 100$ / $\pm 200$			
SG73P1J	0603	0.5 W		$\pm 100$		150 V	200 V
SG73P2A	0805	0.75 W		$\pm 100$ / $\pm 200$			
SG73P2B	1206	1 W		$\pm 100$ / $\pm 200$		400 V	600 V*2
SG73P2E	1210	1.5 W					
SG73P2E1		1.5 W					

\*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.