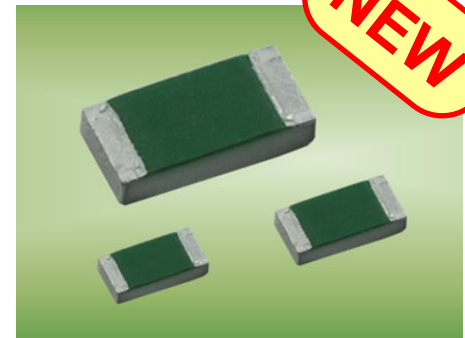


# AEC-Q200 qualified, $\pm 0.5\%$ , $\pm 50$ ppm/K, High Precision, Anti-Pulse Resistor



KOAs new SG73G-series thick film resistors are designed for applications where high precision and pulse stability are essential.

The new SG73G-series has a T.C.R. of  $\pm 50$  ppm/K as well as a tolerance of  $\pm 0.5\%$  so it is ideal for precision designs such as high-accuracy sensing or voltage detection circuits in automotive and industrial applications. The special inner construction offers also an outstanding pulse load capability and allows higher rated power.



## Features:

- Outstanding pulse proof properties
- High precision:  $\pm 0.5\%$ , T.C.R.  $\pm 50$  ppm/K
- High power rating
- $30\ \Omega$  to  $1\ M\Omega$
- Available in 0603, 0805 and 1206
- Improved high temperature reliability ( $-55\ ^\circ\text{C}$  to  $+155\ ^\circ\text{C}$ )
- AEC-Q200 qualified

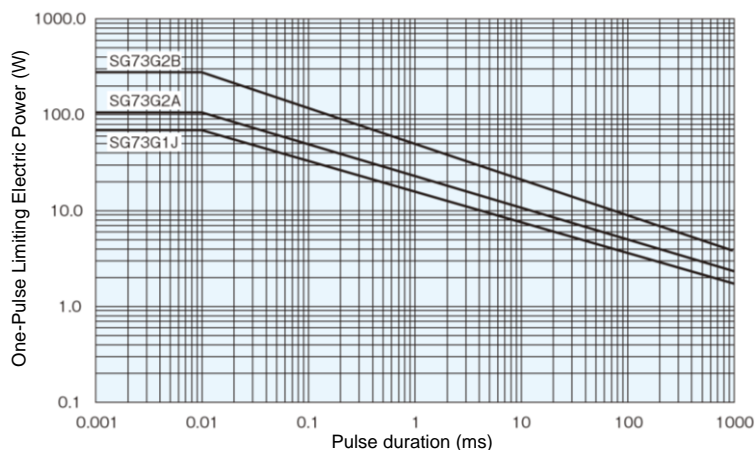
## Application Examples:

- Automotive electronics (e.g. ECU)
- Power supplies
- Industrial Electronics
- Measuring instruments
- Motor controls
- Smart meters
- Power conditioners / inverters
- White goods

## Ratings:

Type	Size (inch)	Power Rating	Rated Ambient Temp.	Rated Terminal Part Temp.	T.C.R.	Resistance Range E24 & E96 D: $\pm 0.5\%$	Max. Working Voltage	Max. Overload Voltage
SG73G1J	0603	0.2 W	$+70\ ^\circ\text{C}$	$+125\ ^\circ\text{C}$	$\pm 50$ ppm/K	$30\ \Omega - 1\ M\Omega$	150 V	200 V
		0.33 W*	-	$+125\ ^\circ\text{C}$				
SG73G2A	0805	0.25 W	$+70\ ^\circ\text{C}$	$+125\ ^\circ\text{C}$				
		0.5 W*	-	$+100\ ^\circ\text{C}$				
SG73G2B	1206	0.33 W	$+70\ ^\circ\text{C}$	$+125\ ^\circ\text{C}$				
		0.5 W*	-	$+120\ ^\circ\text{C}$				

\*Increased power ratings are allowed acc. to derating curve based on terminal part temperature.



**One-Pulse Limiting Electric Power**

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