

# Pulse Proof and Anti-Surge, High Power Thick Film Chip Resistors



Surge protection is becoming essential for all circuit designs. With the SG73-series, KOA offers a resistor series which has approx. 10 times higher pulse handling capability compared to standard flat chip resistors. Due to this outstanding pulse load capability these are suitable for protection of electronic circuits against extreme pulses and surges. These resistors are available with  $\pm 10\%$  or  $\pm 20\%$  resistance tolerance.

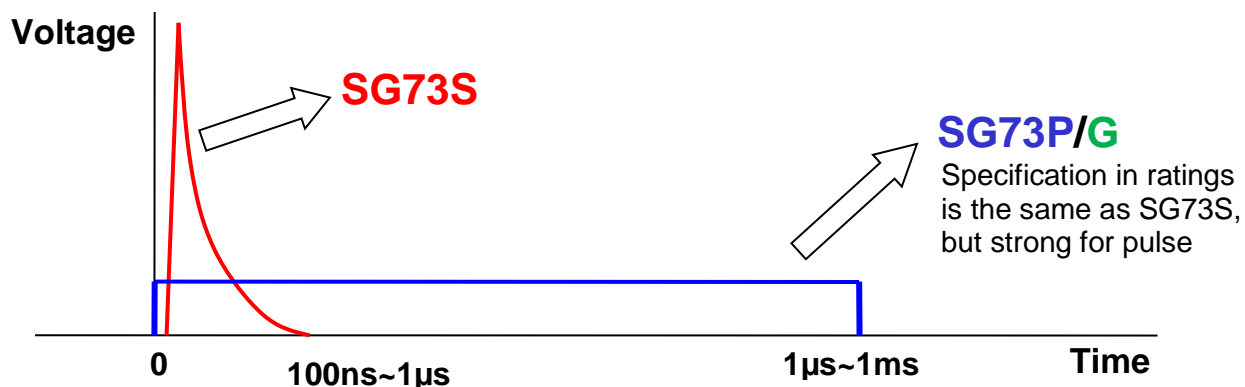
KOA has recently optimized the resistive material and the production process, and is now able to offer the SG73S, SG73P and SG73G-series also with tighter tolerances of  $\pm 1\%$ ,  $\pm 0.5\%$  and  $\pm 0.25\%$ .



**NEW**

**Pulse Proof High Precision Resistor Series  
SG73G ( $\pm 0.5\%$  or  $\pm 0.25\%$  with  $\pm 50$  ppm/K)**

“Strong for pulse” and “strong for surge” are different characteristics. It is important for customers to use the proper product according to their wave-form.



The KOA **SG73S**-series is a special anti-surge resistor which is suitable for high peak voltages with short duration (e.g. ESD / CR discharge / rush current, etc.)

The **SG73P**-series is a pulse-proof resistor which is suitable in case of higher power than rated power and pulse voltage is applied comparatively long (e.g. gate resistor of FET, etc.).

The **SG73G**-series is a high precision pulse-proof resistor with T.C.R.  $\pm 50$  ppm/K and the same one-pulse characteristics than the SG73P-series.

## ■ Product Features

- Outstanding pulse proof property
- Higher power ratings than std. FC's
- Excellent in ESD characteristic (SG73, SG73S)
- High component and equipment reliability
- Resistance range  $1\ \Omega \dots 10\ \text{M}\Omega$
- Resistance tolerances down to  $\pm 0.25\%$
- Operating temperatures up to  $+155\ \text{°C}$
- Tested acc. to AEC-Q200 requirements
- Anti-Sulfuration type also available (SG73S/P\_RT)

## ■ Application Examples

- Automotive electronics (e.g. ECU)
- Power supplies
- Industrial
- Measuring instruments
- Motor control
- Smart meter
- Power conditioner / inverter
- White goods
- etc.

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