

Special Flat Chip Resistors

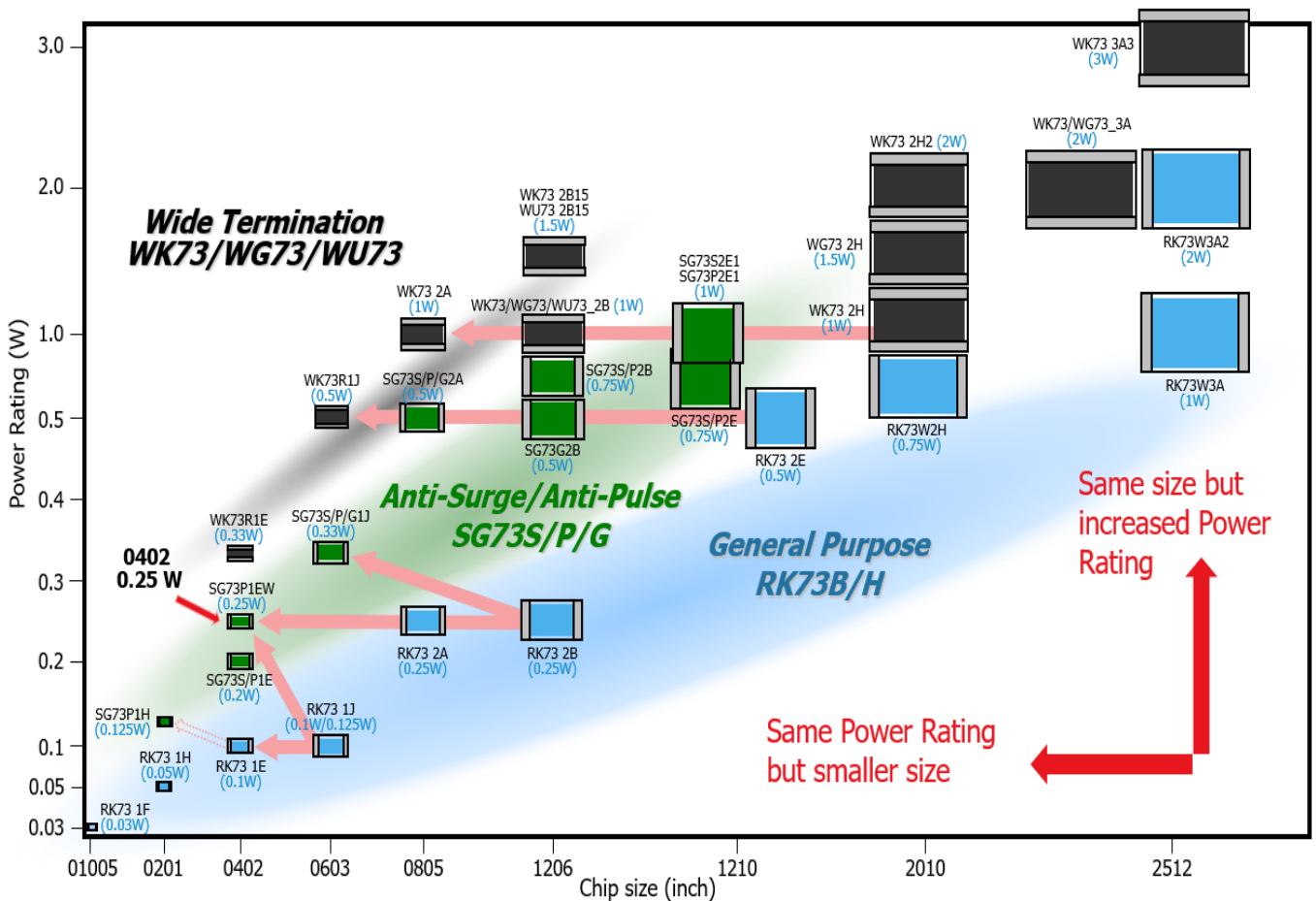
Downsizing

PCB space can be saved by using smaller parts from KOA's SG73 and WK73 series which allow the same power rating.

Power-up

Alternatively, current layouts can be upgraded to allow higher rated power parts on existing footprints.

Flat Chip Size vs. Power Rating for General / Anti-Surge / Wide Terminal types



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.

Pulse Proof and Anti-Surge Resistors

SG73 Series



Features

- Outstanding pulse performance (SG73, SG73P, SG73G)
- Excellent in ESD characteristics (SG73, SG73S)
- High component and equipment reliability
- Available in sizes 0402...2512
- Resistance range 1 Ω ...10 M Ω
- Resistance tolerances to ± 0.25 %
- Operating temperatures up to +155 °C
- EU-RoHS compliant, AEC-Q200 tested
- Lab Kits are available
- Anti-Sulfuration type also available

**NEW: SG73P1EW
0402, 0.25 W**

Application Examples

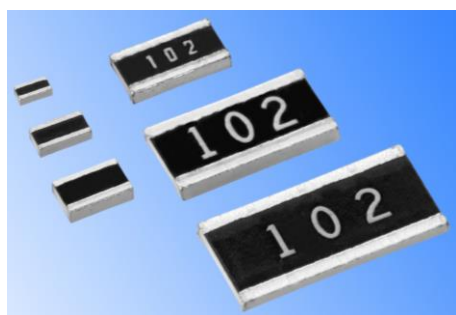
- Automotive electronics
- Power supplies
- Industrial electronics
- Measuring instruments
- Motor control units
- Smart meter
- Power conditioner / inverter
- White goods

Part Numbers and Series

- **SG73**: Pulse & surge withstanding, ± 10 %, ± 20 %, 0603...2512
- **SG73 P**: Pulse withstanding, ± 0.5 %... ± 5 %, 0402...1210
- **SG73 S**: Surge withstanding, ± 0.5 %... ± 5 %, 0402...1210
- **SG73 P/S_RT**: Anti-sulfuration, 1 Ω ...10 M Ω , 0402...2512
- **SG73 G**: High precision & pulse withstanding, ± 0.25 %, ± 0.5 %, 0603, 0805, 1206, T.C.R. ± 50 ppm/K

Wide Termination Resistors

WK/WG/WU73 Series



Features

- Excellent heat dissipation, low thermal expansion stress
- Superior temperature and power cycling performance
- Higher rated power – less board space than standard chips
- Standard sizes 0204, 0306, 0508, 0612, 1020 and 1225
- Resistance range 10 m Ω ...1 M Ω
- Resistance tolerances ± 0.5 %, ± 1 %, ± 5 %
- Operating temperatures to +155 °C
- EU-RoHS compliant, AEC-Q200 tested
- Lab Kits are available
- Anti-sulfuration type also available

**NEW: WK73R1E
0204, 0.33 W**

Application Examples

- Automotive electronics
- Power supplies
- Motor control units
- Industrial power control
- Battery packs
- Consumer electronics
- etc.

Part Numbers and Series

- **WK73 R**: 10 Ω ...1 M Ω , 0204...1225
- **WK73 S**: 10 m Ω ...9.76 Ω , 0508...1225
- **WG73**: Pulse withstanding, 560 m Ω ...1 k Ω , 0612, 1020, 1225
- **WU73**: Improved T.C.R., 10 m Ω ...100 m Ω , 0612
- **WK73 R/S_RT**: Anti-sulfuration, 1 Ω ...1 M Ω , 0508...1225