

Special Flat Chip Resistors

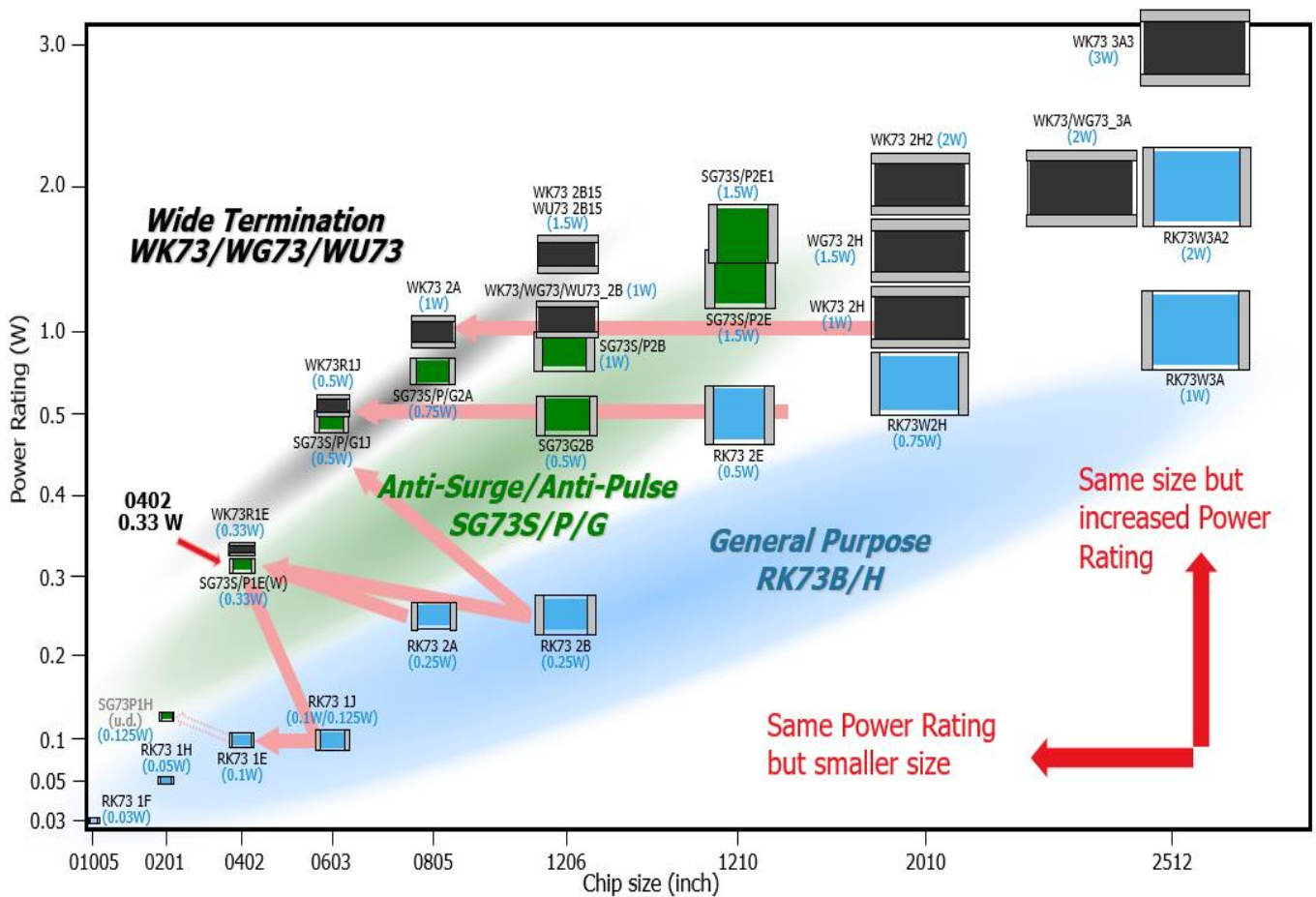
Downsizing

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



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, 0.33 W**

Application Examples

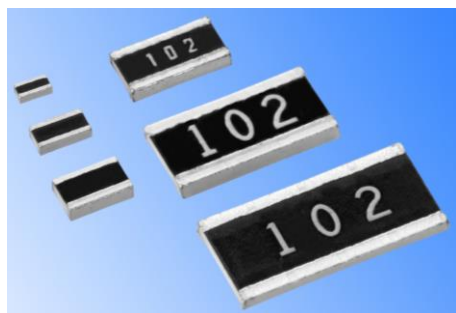
- Automotive electronics
- Power supplies
- Industrial electronics
- Measuring instruments
- Motor control units
- Smart meter
- Power conditioner / inverter
- White goods

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