

## Special Flat Chip Resistors

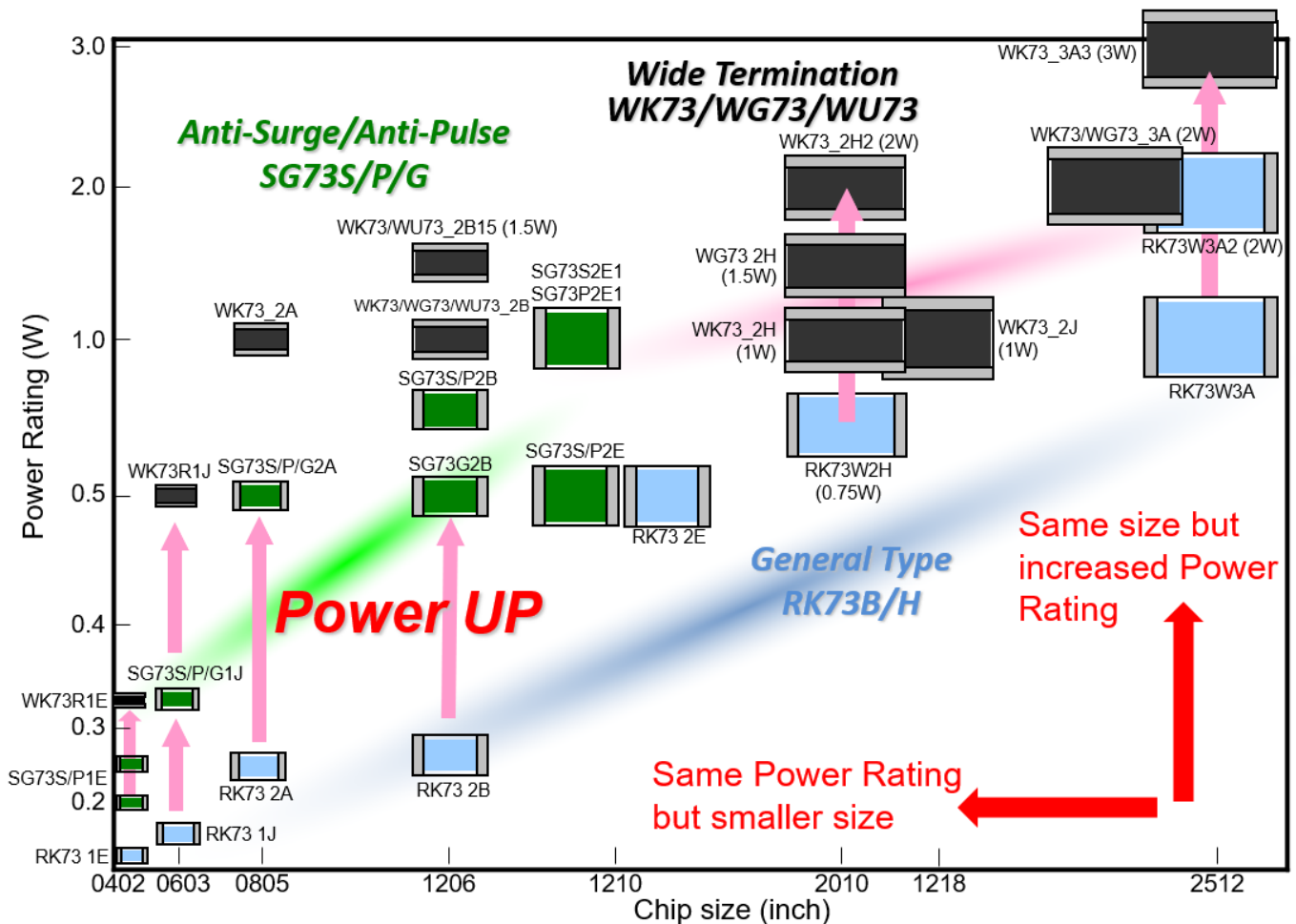
### Downsizing

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



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## 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  $\Omega$ ...10 M $\Omega$
- Resistance tolerances to  $\pm 0.25$  %
- Operating temperatures up to +155 °C
- EU-RoHS compliant, AEC-Q200 qualified
- Lab Kits are available
- Anti-Sulfuration type also available

**NEW: SG73P1EW  
0402, 0.25 W**

### Application Examples

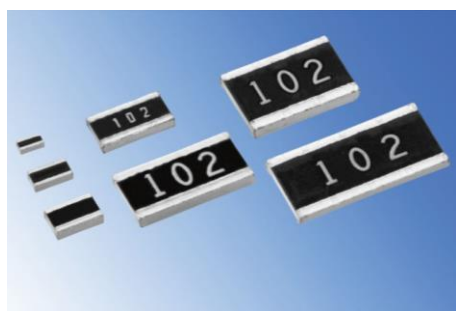
- Automotive electronics
- Power supplies
- Industrial electronics
- Measuring instruments
- Motor control units
- Smart meter
- Power conditioner / inverter
- White goods

### Part Numbers and Series

- **SG73**: Pulse & surge withstanding,  $\pm 10$  %,  $\pm 20$  %, 0603...2512
- **SG73 P**: Pulse withstanding,  $\pm 0.5$  %...  $\pm 5$  %, 0402...1210
- **SG73 S**: Surge withstanding,  $\pm 0.5$  %...  $\pm 5$  %, 0402...1210
- **SG73 P/S\_RT**: Anti-sulfuration, 1  $\Omega$ ...10 M $\Omega$ , 0402...2512
- **SG73 G**: High precision & pulse withstanding,  $\pm 0.25$  %,  $\pm 0.5$  %, 0603, 0805, 1206, T.C.R.  $\pm 50$  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, 1218 and 1225
- Resistance range 10 m  $\Omega$ ...1 M $\Omega$
- Resistance tolerances  $\pm 0.5$  %,  $\pm 1$  %,  $\pm 5$  %
- Operating temperatures to +155 °C
- EU-RoHS compliant, AEC-Q200 qualified
- 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  $\Omega$ ...1 M $\Omega$ , 0204...1225
- **WK73 S**: 10 m $\Omega$ ...9.76  $\Omega$ , 0508...1225
- **WG73**: Pulse withstanding, 560 m $\Omega$ ...1 k $\Omega$ , 0612, 1020, 1225
- **WU73**: Improved T.C.R., 10 m $\Omega$ ...100 m $\Omega$ , 0612
- **WK73 R/S\_RT**: Anti-sulfuration, 1  $\Omega$ ...1 M $\Omega$ , 0508...1225