



# Current Sense Resistors Selection Guide

**KOA SPEER ELECTRONICS, INC.**

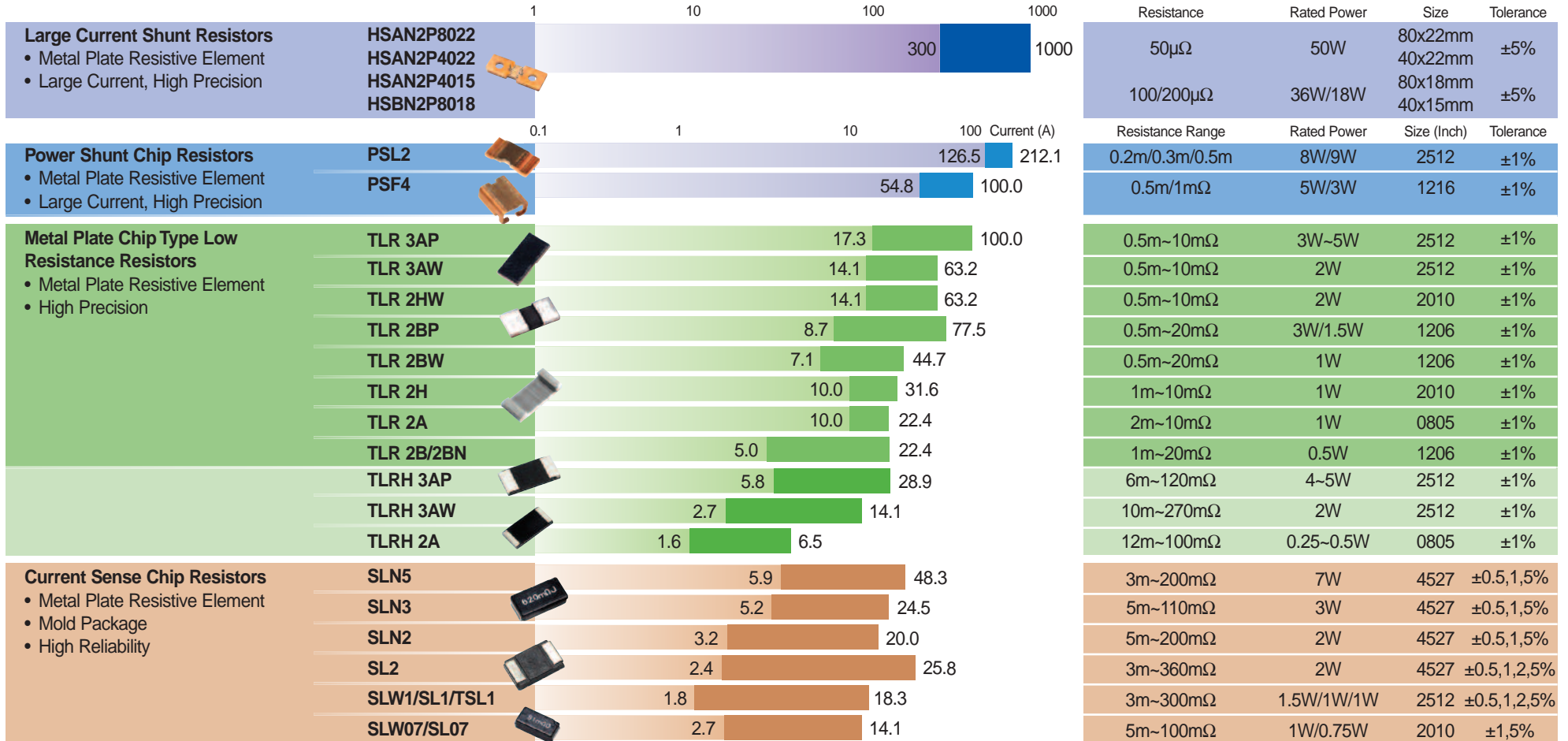
KOA offers complete family of Current Sense Resistors capable of sensing large to small currents with ultra-low resistance

**Applications:** Current management sensor including charge/discharge of secondary batteries • Current control sensor of motors and DC/DC converters • Circuit protecting sensor by overcurrent detection

## Current Sense Resistors

### Current Ratings (A)

### Specifications



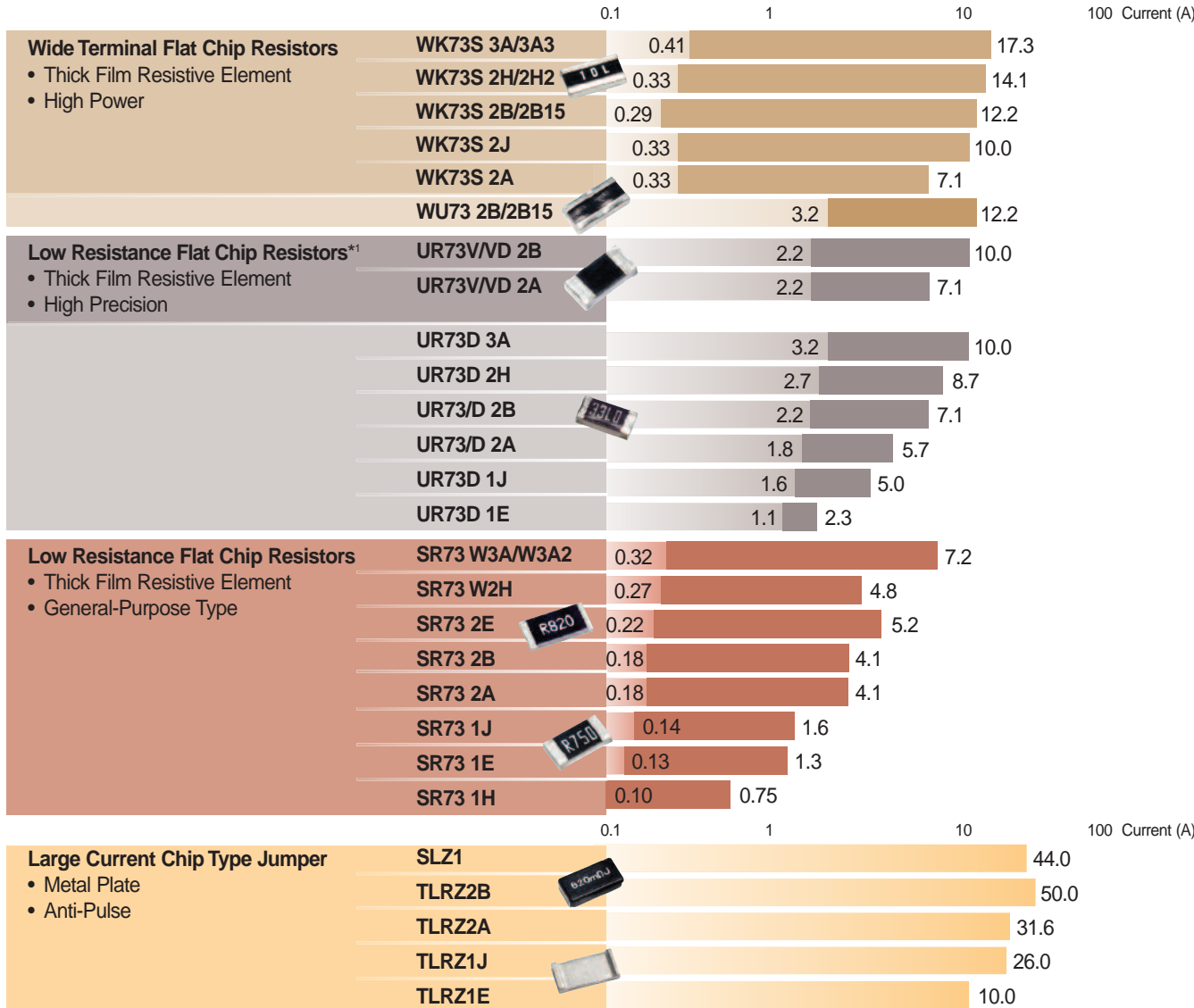
# Current Sense Resistors Selection Guide

## Current Sense Resistors

### Current Ratings (A)

100 Current (A)

### Specifications



Resistance Range	Rated Power	Size (Inch)	Tolerance
10m~9.1Ω	1.5~2W/3W	0612	±0.5,1,5%
10m~9.1Ω	1W/2W	1020	±0.5,1,5%
10m~9.1Ω	0.75~1W/1.5W	0612	±0.5,1,5%
10m~9.1Ω	1W	1218	±0.5,1,5%
20m~9.1Ω	1W	0508	±0.5,1,5%
10m~100mΩ	1W/1.5W	0612	±1%
10m~100mΩ	0.5~0.75W	1206	±1%
10m~100mΩ	0.5W	0805	±1%
10m~100mΩ	1W	2512	±1%
10m~100mΩ	0.75W	2010	±1%
10m~100mΩ	0.5W	1206	±1%
10m~100mΩ	0.33W	0805	±1%
10m~100mΩ	0.25W	0603	±1%
24m~100mΩ	0.125W	0402	±1%
39m~10Ω	1W/2W	2512	±0.5,1,2,5%
33m~10Ω	0.75W	2010	±0.5,1,2,5%
24m~10Ω	0.5~0.66W	1210	±0.5,1,2,5%
30m~10Ω	0.33~0.5W	1206	±0.5,1,2,5%
30m~10Ω	0.33~0.5W	0805	±0.5,1,2,5%
100m~10Ω	0.2~0.25W	0603	±0.5,1,2,5%
100m~10Ω	0.166W	0402	±0.5,1,2,5%
180m~10Ω	0.1W	0201	±0.5,1,2,5%
Resistance Range	Rated Current	Size (Inch)	
Max. 0.5mΩ	44A	2512	
Max. 0.2mΩ	50A	1206	
Max. 0.2mΩ	31.6A	0805	
Max. 0.2mΩ	26A	0603	
Max. 0.5mΩ	10A	0402	

- This selection guide plots the current value calculated from (Power rating ÷ upper or lower limit of resistance). Please build the design considering heat dissipation.
- This is the guideline to select products by current value. Please confirm product specification for actual design and selecting products and use the products based on the precautions to use.
- Please confirm our catalog or delivery specification for the details of each product.

\*<sup>1</sup> UR73/UR73D is only applied for car accessories as automotive use. Please ask us for details.