



Current Sense Resistors Selection Guide

KOA SPEER ELECTRONICS, INC.

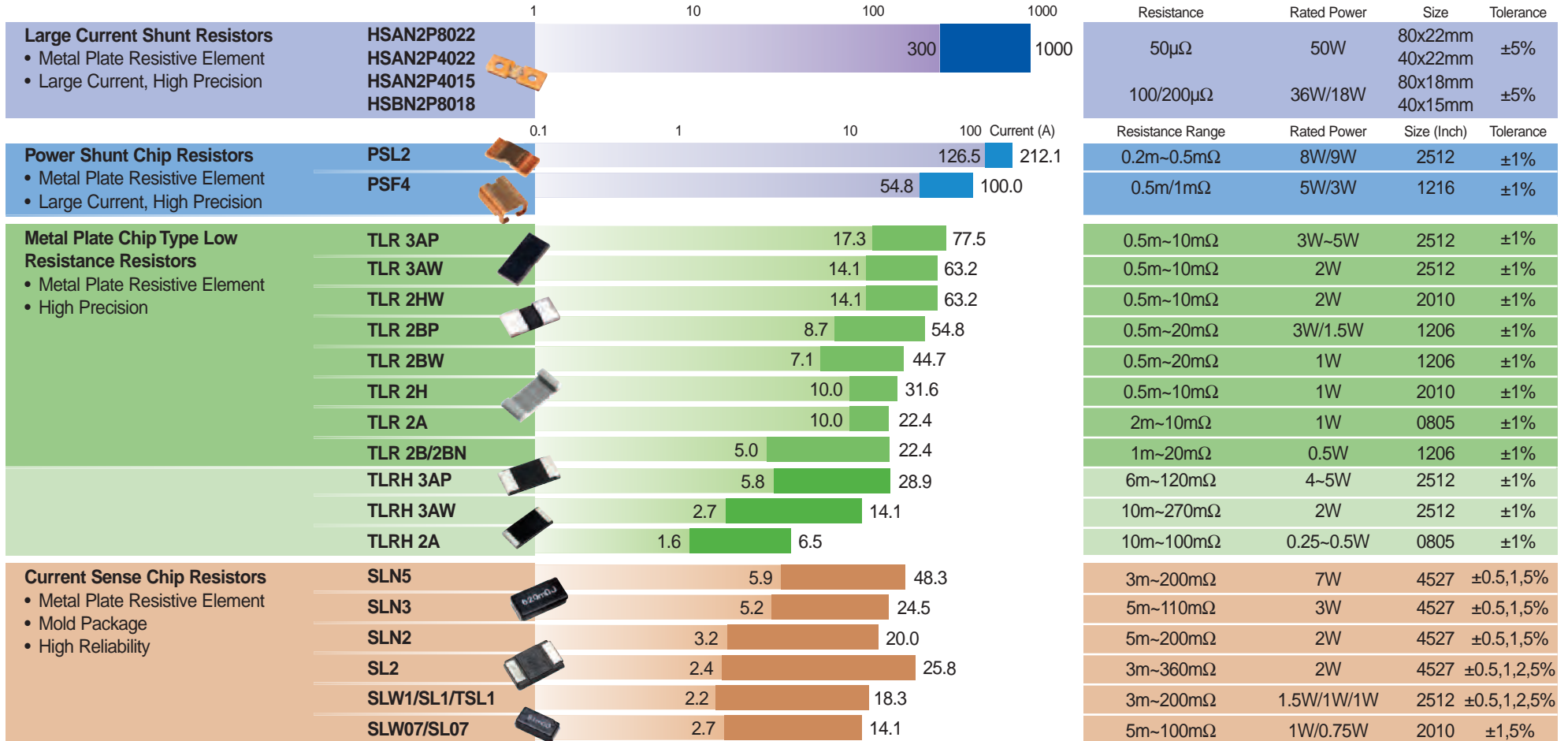
KOA offers complete family of Current Sense Resistors capable of sensing large to small currents with ultra-low resistance

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



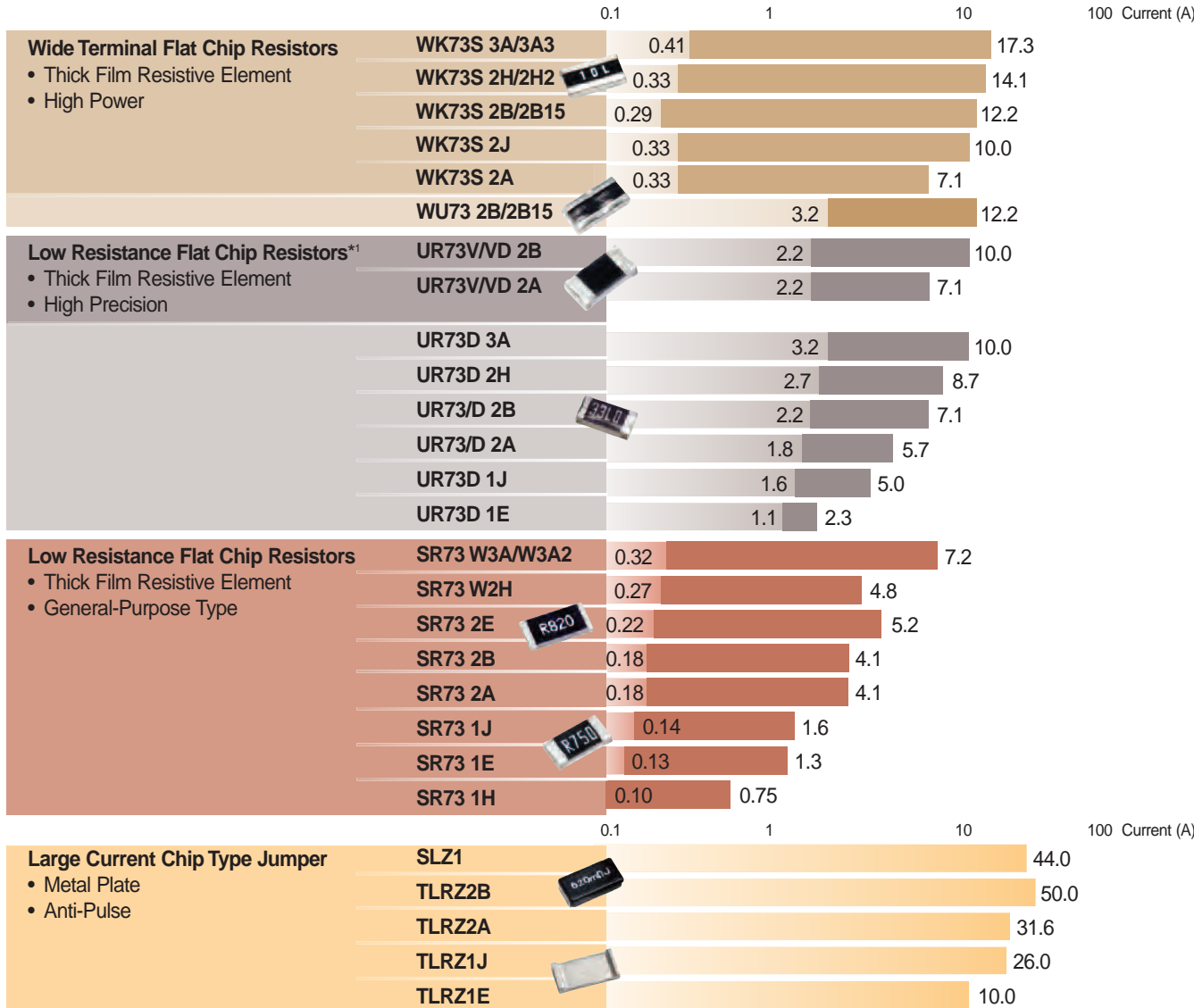
Current Sense Resistors Selection Guide

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.

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