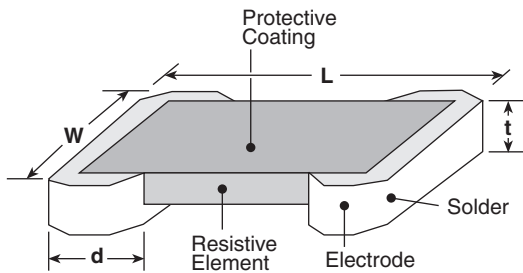


## features

- Smooth current flow, suitable for large current detecting
- Easy to absorb the thermal expansion, because of KOA's original terminal structure
- Low height with a thickness of 0.65mm, suitable for use of thin modules
- Automatic mounting machines are applicable
- Suitable for reflow soldering
- Marking: Black body color
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

## dimensions and construction



Size Code	Resist. ( $\Omega$ )	Dimensions inches (mm)			
		L	W	d	t
PSB	0.75mm	.394 $\pm$ .010 (10.0 $\pm$ 0.25)	.331 $\pm$ .010 (8.4 $\pm$ 0.25)	.138 $\pm$ .010 (3.5 $\pm$ 0.25)	.026 $\pm$ .010 (0.65 $\pm$ 0.25)
	1.0mm			.118 $\pm$ .010 (3.0 $\pm$ 0.25)	

## ordering information

New Part #	PS	B	T	TEB	1L00	F
	Type	Power Rating	Termination Material	Packaging	Nominal Resistance	Tolerance
		B: 6W	T: Sn	TEB: Embossed plastic	All values less than 0.1 $\Omega$ (100m $\Omega$ ) are expressed in m $\Omega$ with "L" as decimal Ex: 0.75m $\Omega$ = L750 1m $\Omega$ = 1L00	F: $\pm$ 1%

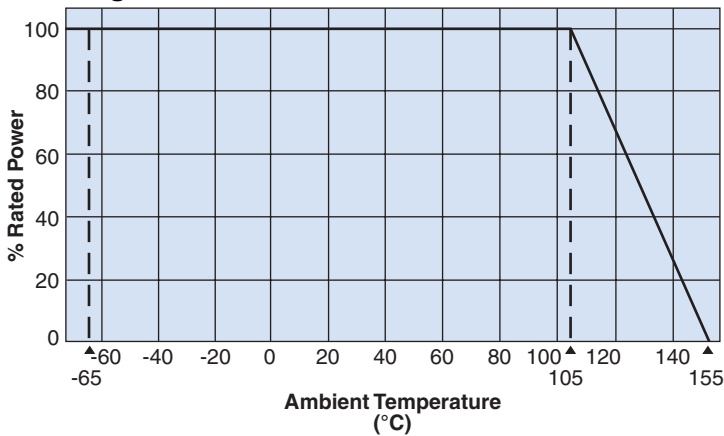
## applications and ratings

Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Resistance Range	Resistance Tolerance	Terminal Temperature Under a Rated Load	Operating Temperature Range
PSB	6W*	±75	0.75mΩ, 1mΩ	F: ±1%	+105°C and less	-65°C to +155°C

\* This power rating is guaranteed only for use on an aluminum substrate with the recommended solder pads shown in Appendix E of the part catalog or the "Pad Dimensions" related information on the KOA Speer web site. Please check with KOA before ordering or using.

## environmental applications

### Derating Curve



## Performance Characteristics

Parameter	Requirement $\Delta R$ ±%		Test Method
	Limit	Typical	
Overload (Short time)	±0.5%	±0.1%	Rated power x 2.5 for 5 seconds (Use our designated aluminum circuit board & heat sink)
Resistance to Solder Heat	±0.5%	±0.2%	260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	±0.5%	±0.1%	-40°C (30 minutes), +125°C (30 minutes), 1,000 cycles Use our designated aluminum circuit board
Moisture Resistance	±0.5%	±0.1%	85°C ± 2°C, 85% RH, 1000 hours, 10% Bias
Endurance at 105°C and Less of Terminal Temperature	±1.0%	±0.1%	Terminal temperature: 105°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle Use our designated aluminum circuit board
Low Temperature Operation	±0.5%	±0.1%	-65°C, 96 hours. Use our designated aluminum circuit board
High Temperature Exposure	±1%	±0.1%	+155°C, 1,000 hours. Use our designated aluminum circuit board