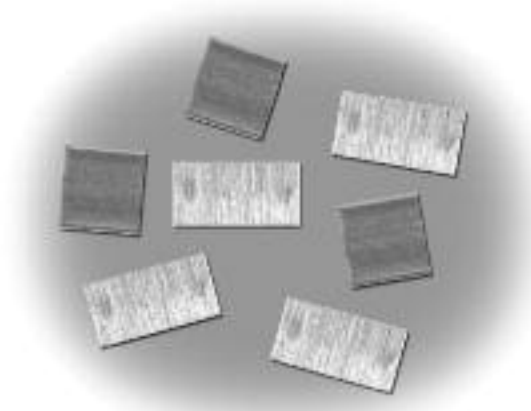
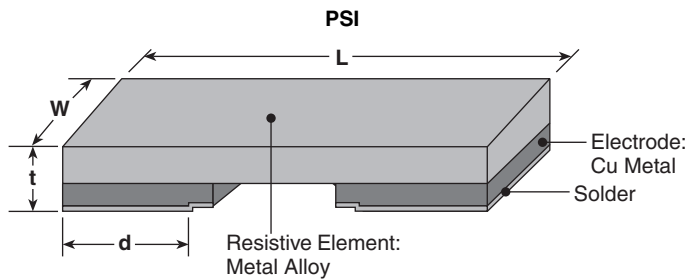
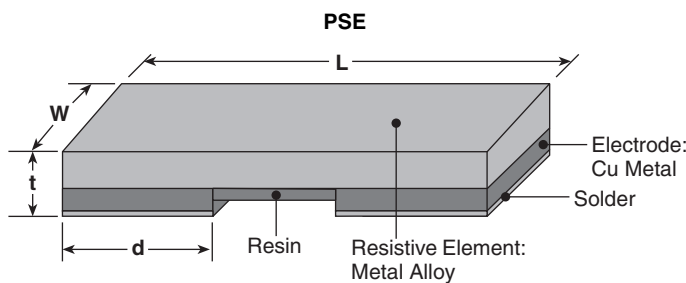


**features**

- Smooth current flow, suitable for large current detecting
- Flat structure, applicable for strong mounting
- Automatic mounting machines are applicable
- Products with lead-free terminations meet EU RoHS and China RoHS requirements
- AEC-Q200 Qualified



**dimensions and construction**



Type (Inch Size Code)	Resist. ( $\Omega$ )	Dimensions inches (mm)			
		L	W	d	t
PSI (4020)	3.0m	.394 $\pm$ .010	.205 $\pm$ .010	.079 $\pm$ .010	.028 $\pm$ .010
	4.0m	(10.0 $\pm$ 0.25)	(5.2 $\pm$ 0.25)	(2.0 $\pm$ 0.25)	(0.7 $\pm$ 0.25)
PSE (2525)	0.5m, 1.0m	.252 $\pm$ .010	.252 $\pm$ .010	.087 $\pm$ .010	.026 $\pm$ .010
	1.0m, 2.0m	(6.4 $\pm$ 0.25)	(6.4 $\pm$ 0.25)	(2.2 $\pm$ 0.25)	(0.65 $\pm$ 0.25)
					.019 $\pm$ .010 (0.50 $\pm$ 0.25)

**ordering information**

New Part #	PS	I	D	TEB	1L00	F
Type		Power Rating	Termination Material	Packaging	Nominal Resistance	Tolerance
		I: 3W New E: 5W	D: SnAgCu	TE: embossed plastic (PSE: 2,000 pieces/reel) TEB: embossed plastic (PSI: 3,000 pieces/reel)	F: 4 digits J: 3 digits All values less than 0.1 $\Omega$ (100m $\Omega$ ) are expressed in m $\Omega$ with "L" as decimal Ex: 1m $\Omega$ = 1L00	F: $\pm$ 1% J: $\pm$ 5%

## applications and ratings

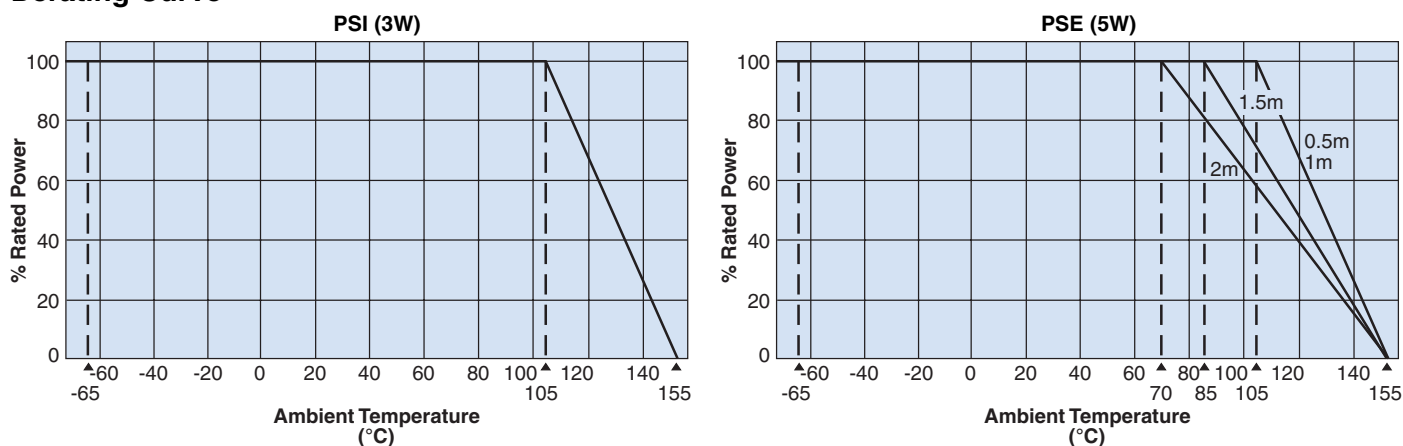
Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Resistance Range		Terminal Temperature Under a Rated Load	Operating Temperature Range
			F: ±1%	J: ±5%		
PSI	3W*	±50	3mΩ, 4mΩ	—	+105°C and less	-65°C to +155°C
PSE	5W*	±150	0.5mΩ, 1.0mΩ 1.5mΩ, 2.0mΩ	0.5mΩ, 1mΩ, 1.5mΩ, 2mΩ	0.5mΩ, 1mΩ: +105°C and less 1.5mΩ: 85°C and less 2mΩ: +70°C and less	

\* A power rating shall be guaranteed with a method shown in the item. Please inquire before you order and/or use.

\*\* Under development

## environmental applications

### Derating Curve



For resistors operated at rated terminal temperature a power rating shall be derated in accordance with the above derating curve.

## Performance Characteristics

Parameter	Requirement $\Delta R$ ±%		Test Method
	Limit	Typical	
Overload (Short time)	±0.2%: PSI ±0.5%: PSE	±0.1%: PSI ±0.2%: PSE	15W for 5 seconds
Resistance to Solder Heat	±0.5%	±0.1%	260°C ± 5°C, 15 seconds ± 1 second
Rapid Change of Temperature	±0.5%	±0.2%	-55°C (30 minutes), +125°C (30 minutes), 1,000 cycles
Moisture Resistance	±0.5%	±0.2%	85°C ± 2°C, 85% RH, 1000 hours, 10% Bias
Endurance at and Less of Terminal Temperature	±1.0%	±0.2%: PSI ±0.6%: PSE	Terminal temperature: 105°C (PSI, PSE (3W), PSE (5W) 0.5m, 1.0m) +85°C (PSE (5W) 1.5m) +70°C (PSE (5W) 2.0m), 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Low Temperature Operation	±0.5%	±0.02%: PSI ±0.1%: PSE	-65°C, 96 hours
High Temperature Exposure	±1%	±0.4%: PSI ±0.6%: PSE	+155°C, 1,000 hours

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