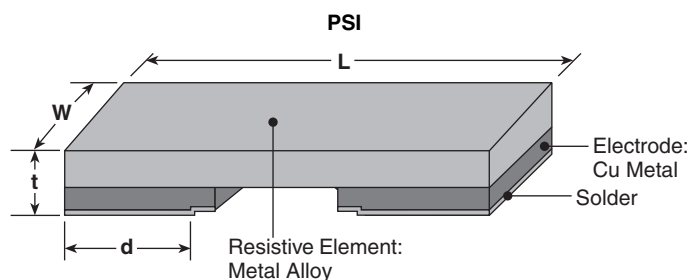
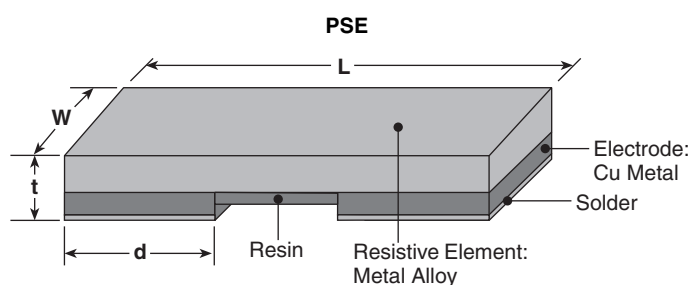


features

- 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. (Ω)	Dimensions inches (mm)			
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	.252 $\pm$.010	.252 $\pm$.010	.087 $\pm$.010	.026 $\pm$.010
	1.0m	(6.4 $\pm$ 0.25)	(6.4 $\pm$ 0.25)	(2.2 $\pm$ 0.25)	(0.65 $\pm$ 0.25)
	1.0m, 2.0m				.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 Ω (100m Ω) are expressed in m Ω with "L" as decimal Ex: 1m Ω = 1L00	F: $\pm$ 1% J: $\pm$ 5%

applications and ratings

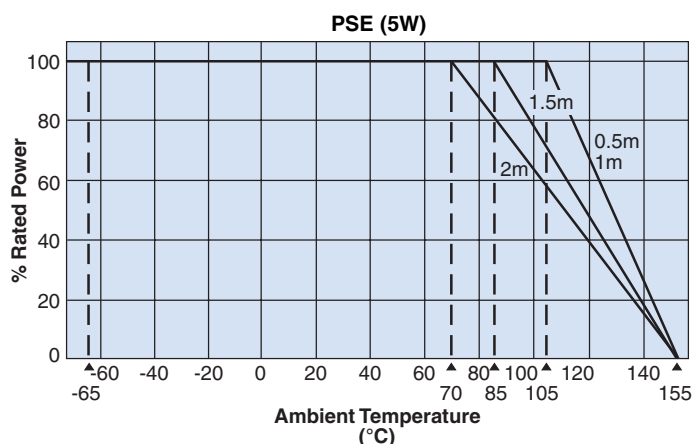
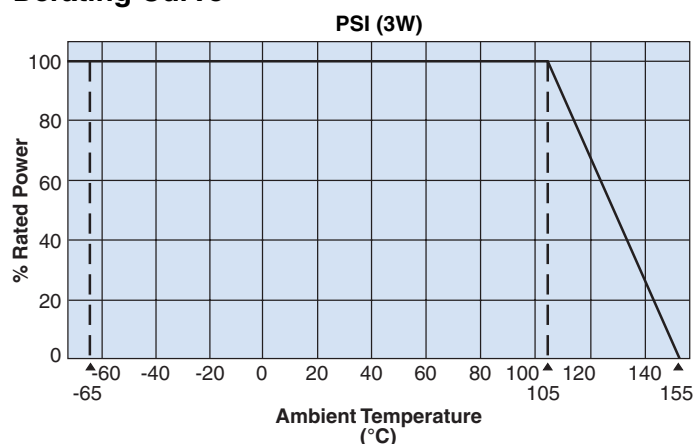
Part Designation	Power Rating	T.C.R. (ppm/°C) Max.	Resistance Range		Terminal Temperature Under a Rated Load	Operating Temperature Range
			F: $\pm 1\%$	J: $\pm 5\%$		
PSI	3W*	± 50	3m Ω , 4m Ω	—	+105°C and less	-65°C to +155°C
PSE	5W*	± 150	0.5m Ω , 1.0m Ω 1.5m Ω , 2.0m Ω	0.5m Ω , 1m Ω , 1.5m Ω , 2m Ω	0.5m Ω , 1m Ω : +105°C and less 1.5m Ω : 85°C and less 2m Ω : +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 $\Delta R \pm\%$		Test Method
	Limit	Typical	
Overload (Short time)	$\pm 0.2\%$: PSI $\pm 0.5\%$: PSE	$\pm 0.1\%$: PSI $\pm 0.2\%$: PSE	15W for 5 seconds
Resistance to Solder Heat	$\pm 0.5\%$	$\pm 0.1\%$	260°C $\pm 5^\circ\text{C}$, 15 seconds ± 1 second
Rapid Change of Temperature	$\pm 0.5\%$	$\pm 0.2\%$	-55°C (30 minutes), +125°C (30 minutes), 1,000 cycles
Moisture Resistance	$\pm 0.5\%$	$\pm 0.2\%$	85°C $\pm 2^\circ\text{C}$, 85% RH, 1000 hours, 10% Bias
Endurance at and Less of Terminal Temperature	$\pm 1.0\%$	$\pm 0.2\%$: PSI $\pm 0.6\%$: 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	$\pm 0.5\%$	$\pm 0.02\%$: PSI $\pm 0.1\%$: PSE	-65°C, 96 hours
High Temperature Exposure	$\pm 1\%$	$\pm 0.4\%$: PSI $\pm 0.6\%$: PSE	+155°C, 1,000 hours