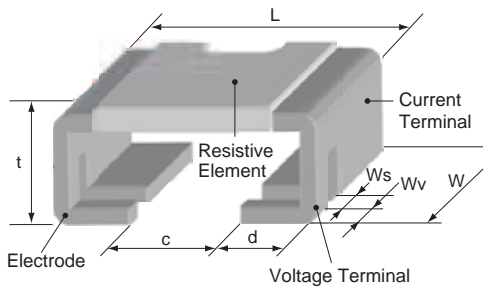


features

- Correcter electric current detection is possible to 4-terminal construction
- Excellent T.C.R. achieved ($\pm 50 \times 10^{-6}/K$)
- Ultra low resistance, suitable for large current sensing
- Automatic mounting machines are applicable
- Suitable for reflow soldering (Not suitable for flow soldering)
- Products meet EU RoHS requirements
- AEC-Q200 qualified

dimensions and construction



Type (Inch Size Code)	Resist. (Ω)	Dimensions inches (mm)						
		L	W	d	C	Ws	Wv	t
PSG4 (2726)	0.5m	.272 \pm .010 (6.9 \pm 0.25)	.260 \pm .010 (6.6 \pm 0.25)	.079 \pm .004 (2.0 \pm 0.1)	—	.039 \pm .004 (1.0 \pm 0.1)	.028 \pm .010 (0.7 \pm 0.1)	.120 \pm .008 (3.05 \pm 0.2)
	1m							.110 \pm .008 (2.8 \pm 0.2)
PSF4 (1216)	0.5m	.118 \pm .004 (3.0 \pm 0.1)	.150 \pm .004 (3.8 \pm 0.1)	—	.037 \pm .006 (0.95 \pm 0.15)	.028 \pm .002 (0.7 \pm 0.05)	.020 \pm .002 (0.5 \pm 0.05)	.071 \pm .004 (1.8 \pm 0.1)
	1m							

ordering information

PS	G	4	N	TEB	L500	F
Type	Power Rating	Termination Number	Termination Material	Packaging	Nominal Resistance	Tolerance
	G: 0.5m: 10W 1m: 8W F: 0.5m: 5W 1m: 3W		N: No surface treatment	TEB: 12mm pitch plastic embossed	4 digits: all values less than 100m Ω are expressed in m Ω with "L" as decimal Ex: 0.5m Ω - L500 1m Ω - 1L00	F: \pm 1%

Contact us when you have control request for environmental hazardous material other than the substance specified by EU RoHS.

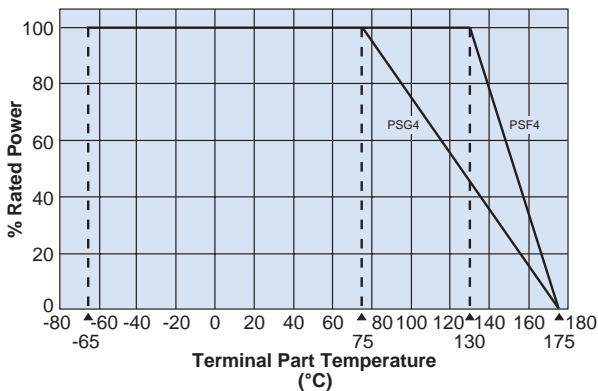
For further information on packaging, please refer to Appendix A.

applications and ratings

Part Designation	Power Rating (Current Rating)	T.C.R. (ppm/°C) Max.	Resistance Range	Resistance Tolerance	Rated Terminal Part Temperature	Operating Temperature Range
PSG4	10W (141A)	±50	0.5mΩ	F: ±1%	75°C	-65°C to +175°C
	8W (89A)		1mΩ			
PSF4	5W (100A)	±50	0.5mΩ	F: ±1%	130°C	
	3W (54A)		1mΩ			

environmental applications

Derating Curve



For resistors operated at a terminal part temperature of described for each size or above, a power rating shall be derated in accordance with the derating curve.

Please refer to "Introduction of the derating curve based on the terminal part temperature" in the beginning of our catalog before use.

Performance Characteristics

Parameter	Requirement $\Delta R \pm\%$		Test Method
	Limit	Typical	
T.C.R.	Within specified T.C.R.	—	+25°C/+125°C
Overload (Short time)	±0.5%	±0.1%	PSG4 (0.5mΩ): 30W for 5 seconds; PSG4 (1mΩ): 20W for 5 seconds PSF4 (0.5mΩ): 15W for 5 seconds; PSF4 (1mΩ): 9W 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%	±0.1%	-55°C (30 minutes), +150°C (30 minutes), 1,000 cycles
Moisture Resistance	±0.5%	±0.05%	85°C ± 3°C, 85% ± 3°C RH, 1000 hours, 10% Bias
Endurance of Rated Terminal Part Temperature	±1.0%	±0.5%	PSG4: Terminal part temperature: 75°C ± 3°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle PSF4: Terminal part temperature: 130°C ± 3°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Low Temperature Exposure	±0.5%	±0.01%	-65°C, 1000 hours
High Temperature Exposure	±1%	±0.6%	+175°C, 1,000 hours