

Features:

- Low cost power resistor
- All welded construction
- Non-flammable silicone coating
- RoHS compliant / lead-free
- Note: NOT available in non-inductive or fusible

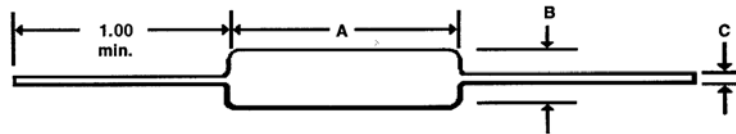


Electrical Specifications

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (V) (1)	Dielectric Withstanding Voltage (V)	Ohmic Range(Ω) and Tolerance
				2%, 5%, 10%
GP1	1.0 W	100V	500 VAC	1 - 1K
GP2	2.5 W	100V	500 VAC	1 - 2K
GP3	3.0 W	200V	1,000 VAC	1 - 3K
GP5	5.0 W	400V	1,000 VAC	1 - 10K
GP7	7.0 W	600V	1,000 VAC	1 - 10K
GP10	10.0 W	800V	1,000 VAC	1 - 20K

(1) Voltage rating is the lesser of Maximum Working Voltage or $\sqrt{PR}$

Standard TCR as follows: 50ppm/° below 10Ω, 30ppm/°C above 10Ω



Mechanical Specifications

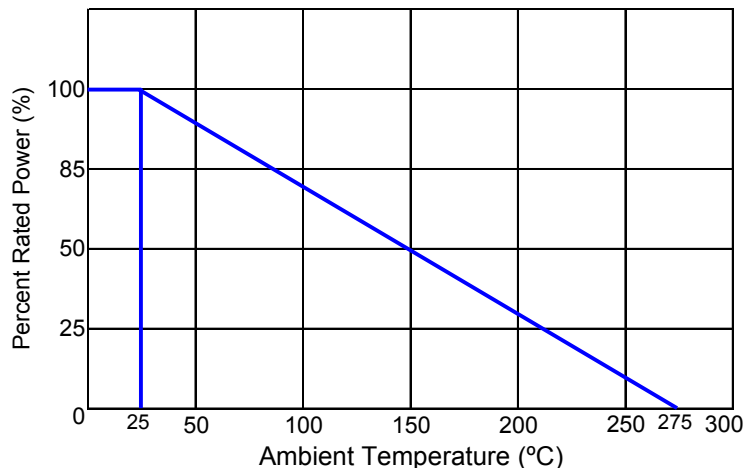
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	Unit
GP 1	0.370 ± 0.063	0.157 ± 0.031	0.032 ± 0.002	inches
	9.40 ± 1.60	4.00 ± 0.80	0.81 ± 0.05	mm
GP 2	0.551 ± 0.063	0.157 ± 0.031	0.032 ± 0.002	inches
	14.00 ± 1.60	4.00 ± 0.80	0.81 ± 0.05	mm
GP 3	0.559 ± 0.063	0.189 ± 0.031	0.032 ± 0.002	inches
	14.20 ± 1.60	4.80 ± 0.80	0.81 ± 0.05	mm
GP 5	0.874 ± 0.063	0.311 ± 0.031	0.036 ± 0.002	inches
	22.20 ± 1.60	7.90 ± 0.80	0.91 ± 0.05	mm
GP 7	1.126 ± 0.063	0.311 ± 0.031	0.036 ± 0.002	inches
	28.60 ± 1.60	7.90 ± 0.80	0.91 ± 0.05	mm
GP 10	1.780 ± 0.063	0.374 ± 0.031	0.039 ± 0.002	inches
	45.20 ± 1.60	9.50 ± 0.80	1.00 ± 0.05	mm

Performance Characteristics

Test	Test Results
Moisture Resistance	±5%
Thermal Shock	±2%
Load Life @ 70°C - 1,000 hrs.	±5%
Resistance to Soldering Heat	±2%
Short Time Overload	±2%
Dielectric Withstanding Voltage	±2%

Operating Temperature Range: -55°C to +275°C

Power Derating Curve:



How to Order

1	2	3	4	5	6	7	8	9
G	P	1	G	T	1	K	0	0
Product Series		Code	Power	Tolerance		Packaging		Resistance Value
GP	Conformal Coated WW	1	1.0W	Code	Tol	Code	Description	Size
		2	2.5W	G	2%	T	Tape and Reel	GP1
		3	3.0W	J	5%			GP2, GP3
		5	5.0W	K	10%			GP5, GP7
		7	7.0W					GP10
		10	10.0W					Quantity
								2,000
								500
								250
								Resistance Value
								Four characters with the multiplier used as the decimal holder.
								1 ohm = 1R00
								1 Kohm = 1K00

Legacy Part Number (before January 3, 2011):

SEI Type		Code	Nominal Resistance	Tolerance	Packaging			
GP		1	1K	2%	R			
Type	Description	Code	Wattage	Tolerance	Types	Qty	Description	Code
GP	Conformal Coated WW	1	1.0W	2%	GP1	2,000	Tape and Reel	R
		2	2.5W	5%	GP 2, GP 3	500		
		3	3.0W	10%	GP 5, GP 7	250		
		5	5.0W		GP 10			
		7	7.0W					
		10	10.0W					