

- Features:
- Voltage ratings 2x or more compared to standard chip resistors
 - Values up to 100M
 - Proportionally higher pulse power capability
 - RoHS compliant / lead-free

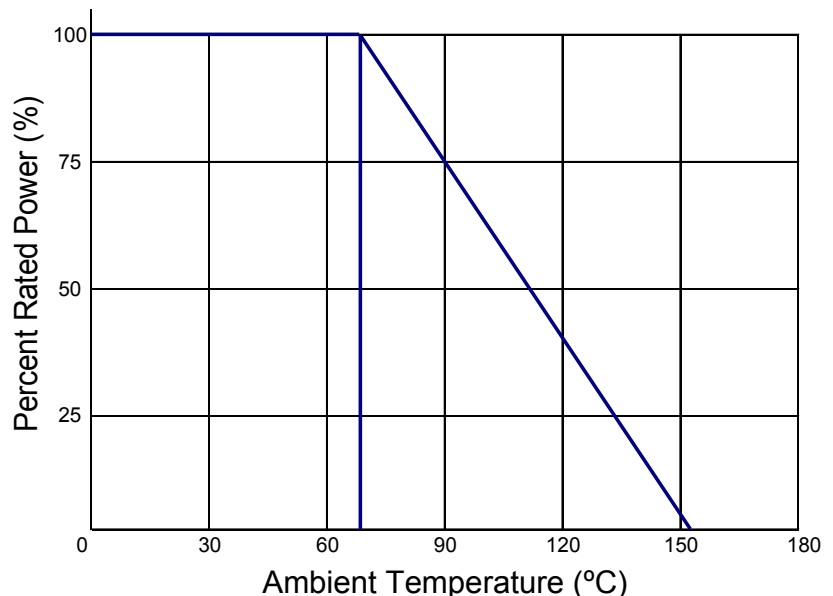


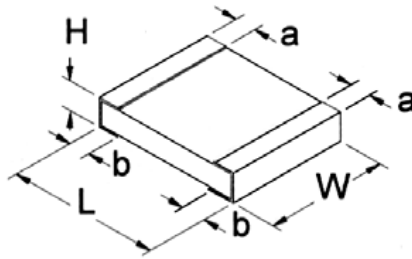
Electrical Specifications						
Type / Code	Power Rating (Watts) @ 70°C	Max Working Voltage	Max Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
					1%	5%
RVC0402	0.063W	100V	200V	±100 ppm/°C ±200 ppm/°C ±400 ppm/°C	10 - 1M 1.02M - 10M -	10 - 1M 1.1M - 20M 22M - 100M
RVC0603	0.1W	200V	400V	±100 ppm/°C ±200 ppm/°C ±400 ppm/°C	10 - 1M 1.02M - 10M -	10 - 1M 1.1M - 20M 22M - 100M
RVC0805	0.125W	400V	800V	±100 ppm/°C ±200 ppm/°C ±400 ppm/°C	10 - 1M 1.02M - 10M -	10 - 1M 1.1M - 20M 22M - 100M
RVC1206	0.25W	500V	1,000V	±100 ppm/°C ±200 ppm/°C ±400 ppm/°C	10 - 1M 1.02M - 10M -	10 - 1M 1.1M - 20M 22M - 100M
RVC2010	0.5W	2,000V	3,000V	±100 ppm/°C ±200 ppm/°C ±400 ppm/°C	10 - 1M 1.02M - 20M -	10 - 1M 1.1M - 20M 22M - 100M
RVC2512	1W	3,000V	4,000V	±100 ppm/°C ±200 ppm/°C ±400 ppm/°C	10 - 1M 1.02M - 20M -	10 - 1M 1.1M - 20M 22M - 100M

Working Voltage = $\sqrt{P \cdot R}$ or maximum operating voltage listed above, whichever is lower.

Overload Voltage = $2.5 \cdot \sqrt{P \cdot R}$ or maximum operating voltage listed above, whichever is lower.

Power Derating Curve:





Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RVC0402	0.039 ± 0.002 1.00 ± 0.05	0.020 ± 0.002 0.50 ± 0.05	0.014 ± 0.002 0.35 ± 0.05	0.008 ± 0.004 0.20 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	inches mm
RVC0603	0.063 ± 0.004 1.60 ± 0.10	0.031 ± 0.004 0.80 ± 0.10	0.018 ± 0.004 0.45 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	inches mm
RVC0805	0.079 ± 0.004 2.00 ± 0.10	0.049 ± 0.004 1.25 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.014 ± 0.008 0.35 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
RVC1206	0.122 ± 0.004 3.10 ± 0.10	0.061 ± 0.004 1.55 ± 0.10	0.021 ± 0.004 0.55 ± 0.10	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RVC2010	0.197 ± 0.008 5.00 ± 0.20	0.098 ± 0.006 2.50 ± 0.15	0.021 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RVC2512	0.250 ± 0.008 6.35 ± 0.20	0.126 ± 0.006 3.20 ± 0.15	0.021 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm

Performance Characteristics			
Item	Requirement		Test Method
	±1%	±5%	
Voltage Proof	No breakdown or flashover		1.42 times RCWV (RMS) for 1 minute
Short Time Overload	±(1.0% + 0.05Ω)	±(2.0% + 0.05Ω)	RCWV*2.5 or maximum overload voltage for 5 seconds
Solderability	95% minimum coverage		245±5°C for 3 seconds
Resistance to Soldering Heat	±(0.5% + 0.05Ω)	±(1.0% + 0.05Ω)	260±5°C for 10 seconds
Rapid Change of Temperature	±(0.5% + 0.05Ω)	±(1.0% + 0.05Ω)	-55°C to +155°C, 5 cycles
Damp Heat with Load	±(2.0% + 0.10Ω)	±(3.0% + 0.10Ω)	40±2°C, 90~95% R.H. maximum working voltage for 1000 hrs with 1.5 hr "ON" and 0.5 Hrs "OFF"
Endurance	±(2.0% + 0.10Ω)	±(3.0% + 0.10Ω)	70±2°C, maximum working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Dry Heat	±(1.0% + 0.05Ω)	±(1.5% + 0.10Ω)	at +155°C for 1000 hrs
Insulation Resistance	≥ 10G		Maximum overload voltage for 1 minute
Bending Strength	±(1.0% + 0.05Ω)	±(1.0% + 0.05Ω)	Bending once for 5 seconds: 2010, 2512 sizes: 2mm Other sizes: 3mm

Operating Temperature Range: -55°C to +155°C
Storage Temperature: 25±3°C; Humidity: < 80%RH

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13
R	V	C	0	8	0	5	J	T	1	0	M	0

Product Series		Size	Power	Tolerance		Packaging			Resistance Value	
RVC	Medium Voltage	0402	0.063W	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 10 ohm = 10R0 10 Kohm = 10K0 1 Mohm = 1M00 100 Mohm = 100M
		0603	0.1W	F	1%	T	7" reel - paper tape	0402	10,000	
		0805	0.125W	J	5%			0603, 0805, 1206	5,000	
		1206	0.25W				7" reel - plastic tape	2010, 2512	4,000	
		2010	0.5W							
		2512	1W							

Legacy Part Number (before January 3, 2011):

SEI Type		Code		Nominal Resistance	Tolerance		Packaging			
RVC		0805		10M	5%		R			
Type	Description	Code	Wattage		Tolerance	Values	SEI Types	Pkg Qty	Description	Code
RVC	Medium Voltage	0402	0.063W		1%	E24, E96	0402	10,000	7" reel - paper tape	R
		0603	0.1W		5%	E24	0603, 0805, 1206	5,000		
		0805	0.125W				2010, 2512	4,000	7" reel - plastic tape	
		1206	0.25W							
		2010	0.5W							
		2512	1W							