

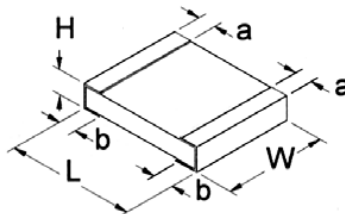
- Features:
- Voltage ratings 2x or more compared to standard chip resistors
 - Values up to 100M
 - Proportionally higher pulse power capability
 - RoHS compliant / lead-free



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 working voltage listed above, whichever is lower.

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

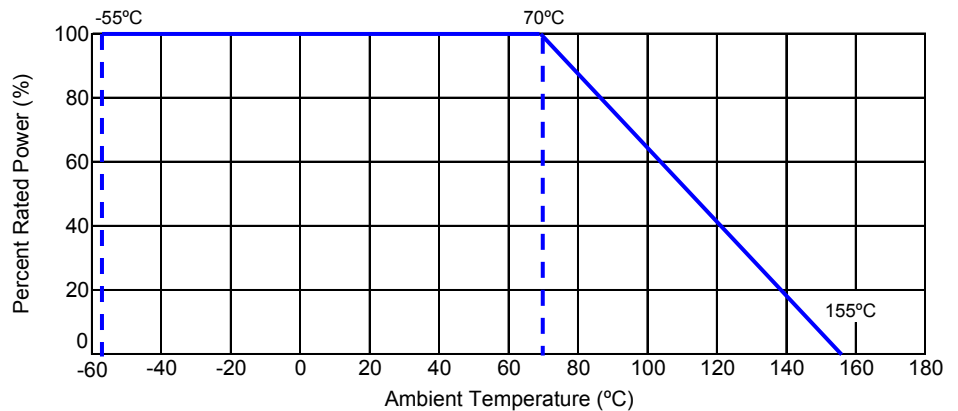


Mechanical Specifications						
Type / Code	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RVC0402	0.039 ± 0.002 1.00 ± 0.05	0.020 ± 0.002 0.50 ± 0.05	0.014 ± 0.002 0.35 ± 0.05	0.008 ± 0.004 0.20 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	inches mm
RVC0603	0.063 ± 0.004 1.60 ± 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	0.022 ± 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	0.022 ± 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	0.022 ± 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	$\pm(1.0\% + 0.05\Omega)$	$\pm(2.0\% + 0.05\Omega)$	RCWV*2.5 or maximum overload voltage for 5 seconds
Solderability	95% minimum coverage		245±5°C for 3 seconds
Resistance to Soldering Heat	$\pm(0.5\% + 0.05\Omega)$	$\pm(1.0\% + 0.05\Omega)$	260±5°C for 10 seconds
Rapid Change of Temperature	$\pm(0.5\% + 0.05\Omega)$	$\pm(1.0\% + 0.05\Omega)$	-55°C to +155°C, 5 cycles
Damp Heat with Load	$\pm(2.0\% + 0.10\Omega)$	$\pm(3.0\% + 0.10\Omega)$	40±2°C, 90~95% R.H. maximum working voltage for 1000 hrs with 1.5 hr "ON" and 0.5 Hrs "OFF"
Endurance	$\pm(2.0\% + 0.10\Omega)$	$\pm(3.0\% + 0.10\Omega)$	70±2°C, maximum working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Dry Heat	$\pm(1.0\% + 0.05\Omega)$	$\pm(1.5\% + 0.10\Omega)$	at +155°C for 1000 hrs
Insulation Resistance	≥ 10G		Maximum overload voltage for 1 minute
Bending Strength	$\pm(1.0\% + 0.05\Omega)$	$\pm(1.0\% + 0.05\Omega)$	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

Power Derating Curve:



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		Code	Tol	Value	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
		0402	0.063W						0402	10,000	
		0603	0.1W	F	1%	E96, E24					
		0805	0.125W	J	5%	E24	T	7" Reel - Paper Tape	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	7" reel - plastic tape	
		0805	0.125W				2010, 2512	4,000		
		1206	0.25W							
		2010	0.5W							
		2512	1W							