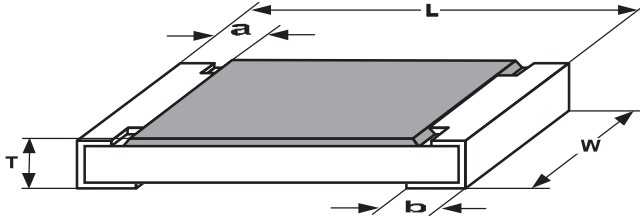


HIGH VOLTAGE SMD POWER RESISTORS

(RVC SERIES)



Applications

Power supply
Backlight inverter
Automotive industry
Medical or military equipment

Features

High stability
Special material and design for higher working voltage application

Dimensions (mm)

Style	L	W	a	b	T
RVC-04 0402	1.00±0.05	0.50±0.05	0.20±0.10	0.20±0.10	0.35±0.05
RVC-06 0603	1.60±0.10	0.80±0.10	0.30±0.20	0.30±0.20	0.45±0.10
RVC-10 0805	2.00±0.10	1.25±0.10	0.35±0.20	0.40±0.20	0.50±0.10
RVC-18 1206	3.10±0.10	1.55±0.10	0.50±0.25	0.50±0.20	0.55±0.10
RVC-22 2010	5.00±0.20	2.50±0.15	0.60±0.25	0.50±0.20	0.55±0.10
RVC-24 2512	6.35±0.20	3.20±0.15	0.60±0.25	0.50±0.20	0.55±0.10



General Specification

Style	Power Rating at 70 °C	Operating Temp. Range	Max. Operating Voltage	Max. Overload Voltage	Resistance Range		TCR (PPM/°C)
					1%	±5%	
RVC-04 0402	1/16W	-55~+125 °C	100V	200V	10Ω~1MΩ 1.02MΩ~10MΩ	±100 ±200	
RVC-06 0603	1/10W		200V	400V			
RVC-10 0805	1/8W		400V	800V			
RVC-18 1206	1/4W		500V	1000V			
RVC-22 2010	1/2W		2000V	3000V			
RVC-24 2512	1W		3000V	4000V			

HIGH VOLTAGE CHIP RESISTOR Characteristics (RVC)

Item	Requirement		Test Method
	±1%	±5%	
Temperature Coefficient of Resistance (T.C.R.)	As Spec.		-55°C~+125°C, 25°C is the reference temperature
Short Time Overload	±(1.0%+0.05Ω)	±(2.0%+0.05Ω)	RCWV*2.5 or Max. overload voltage for 5 seconds
Insulation Resistance	≥ 10G		Max. overload voltage for 1 minute
Endurance	±(2.0%+0.1Ω)	±(3.0%+0.1Ω)	70±2°C, Max. working voltage for 1000 hrs with 1.5hrs "ON" and 0.5hrs "OFF"
Damp Heat with Load	±(2.0%+0.1Ω)	±(3.0%+0.1Ω)	40±2°C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5hrs "ON" and 0.5hrs "OFF"
Dry Heat	±(1.0%+0.05Ω)	±(1.5%+0.1Ω)	at +125°C for 1000 hrs
Bending Strength	±(1.0%+0.05Ω)	±(1.0%+0.05Ω)	Bending once for 5 seconds 2010, 2512 sizes: 2mm other sizes: 3mm
Solderability	95% min. 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
Voltage Proof	No breakdown or Flashover		1.42 times RCWV (RMS) for 1 minute
Leaching	Individual leaching area ≤ 5% Total leaching area ≤ 10%		260±5°C for 30 seconds
Rapid Change of Temperature	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)	-55°C to +125°C, 5 cycles

Parts Number System

Type	Resistance Value	Tolerance	Standard packaging
RVC-04 0402	Please refer to marking explanation	J=5% F=1%	R=paper tape reel 0402 - 10,000pcs/reel 0603, 0805, 1206 -5000pcs/Reel K= Embossed plastic tape reel 2010, 2512 - 4,000pcs/reel
RVC-06 0603			
RVC-10 0805			
RVC-18 1206			
RVC-22 2010			
RVC-24 2512			

