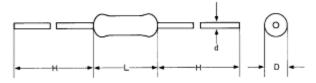
Resistive Product Solutions

Features:

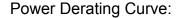
- High voltage surge handling per IEC 60065.14.1, up to 7KV
- High tolerance to prolonged exposure to temperature and humidity stress
- Ideal for applications requiring high stability, reliability and voltage handling; including power inverters, AC adapters and switching power supplies

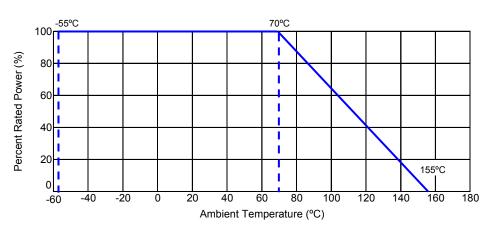


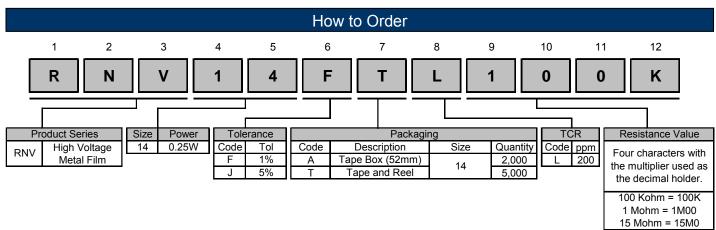
	Electrical Specifications						
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance 1% and 5%		
RNV14	0.25W	1600V (DC 1150V (RMS)	3200V (DC) 2300V (RMS)	±200 ppm/°C	100K - 15M		



	Mechanical Specifications					
-	Гуре / Code	L	D	d	Н	Unit
	RNV14	0.236 ± 0.012 6.00 ± 0.30	0.094 ± 0.008 2.40 ± 0.20	0.022 ± 0.002 0.55 ± 0.05	1.102 ± 0.012 28.00 ± 0.30	inches mm







	Performance Cha	racteristics		
Item	Performance	Test Method		
Solvent Resistance	No serious scratches on the insulating surface	Resistor was dipped into solvent for 5 ± 0.5 minutes		
Temperature Coefficient Resistance (TCR)	Within ±200ppm/°C	Measured resistance (R ₀ ohm) at room temperature (t °C) then measured again at 100°C higher than room temperature ppm/°C = $(R-R_0)/R_0 \times 10^6/\{(T+100)-t\}$		
Overload (short time)	Resistance variation within ±(1% + 0.05 ohm)	Applied DC voltage 2.5 times the rated voltage for 5 seconds ON, 45 seconds OFF. Repeated cycle 10 times. Maximum Overload voltage is not more than 2 x Max Working Voltage		
Voltage Proof	Resistance variation within ±(0.5% + 0.05 ohm)	Resistor was clamped in the through of a 90°C metallic V-block and was tested at provided AC potential voltage for 1 minute. Test voltage: max overload voltage. Test voltage: 500V (AC)		
Vibration	Resistance variation within ±(0.5% + 0.05 ohm)	Applied 1.5mm amplitude vibration to two directions, perpendicular to each other, for 6 hours each. Total 12 hours. Vibrating frequency is 10HZ - 2000HZ - 10HZ cycle in 20 minutes. Repeat cycle.		
Insulation Resistance	10 ⁴ M ohm or more	Resistor was clamped in the through of a 90°C metallic V-block at DC 100V for 1 minute		
Robustness of Terminations	Resistance variation within ±(0.5% + 0.05 ohm) and no mechanical damage	Tensile test: The body of the part is fixed. The tensile force was applied gradually up to 10N. Twist test: Terminal lead was rotated 360° of the original axis of the bent terminal, alternating direction for 3 rotations.		
Resistance to Soldering Heat	No mechanical and electrical deterioration	Resistance to wave soldering condition: Temperature/Time-Profile in accordance to the CECC00802. Max Temperature/Time: 260°C, 10 seconds		
Solderability	More than 95% of the lead surface was covered by new solder after the leads were dipped in the solder	Dipped the lead into a solder bath (temperature 245°C ± 5°C) up to 4 ± 0.8mm from the resistor body and held for 5 ± 0.5 seconds.		
Rapid Change of Temperature	Resistance variation within ±(0.5% + 0.05 ohm)	Test: -55°C for 30 min., 25°C for 30 sec., 155°C for 30 min. 25°C for 30 sec. Resistance changed after continuous 5 cycles.		
Damp Heat	Resistance variation within ±(1.5% + 0.05 ohm)	Temperature 40°C ± 2°C, relative humidity 90~95%, inside bath for 1.5 hour and shut voltage 0.5 hour. Repeated cycle for 1,000 hours. Room temperature for 1 hour after test, then measured		
Endurance at 70°C	Resistance variation within ±(1.5% + 0.05 ohm)	In constant temperature chamber 70°C ± 2°C, applied rated DC voltage for 1.5 hour and shut voltage for 0.5 hour. Cycle repeated for 1,000 hours.		
Cold Resistance	Resistance variation within ±(1.5% + 0.05 ohm)	Resistor was put into a bath at fixed temp of -55°C ± 3°C for 2 hours. After measured, left at room temp for 1 hour, then measured again.		
Heat Resistance	Resistance variation within ±(1.5% + 0.05 ohm)	Resistor was put into a bath at fixed temp of 155°C ± 3°C for 16 hours. After measured, left at room temp for 1 hour, then measured again.		
High Voltage Surge Test	Resistance variation within ±(1% + 0.05 ohm)	In accordance with IEC60065.14.1, 50 discharges from a 1nF capacitor charged to Vmax; Figure 2. 12 discharges/minute		