

# SOT227 High Power Resistor RPK900, RPK900L



- Performance Stability Enabled by the **ALN High-Thermal-Conductivity Substrate.**
- **900 W** High-Power Output In a Compact Package
- Extremely Low Thermal Resistance Of **0.10°C/W**

## Performance

RPK900 and RPK900L, the SOT-227 packaged precision power resistor provides remarkably improved performance stability, enabled by an ALN high-thermal-conductivity ceramic substrate and thin-film manufacturing technology. The RPK900 achieves an insulation voltage of 2.5 kVAC thanks to its large copper flange with excellent thermal conductivity. The RPK900L achieves 10 kVAC by adding wire-lead terminals to the RPK900 to further enhance insulation capability. Thermal Path: The temperature rise from the resistive element to the flange is only 90 °C. Cooling Requirement: When operating at high input power, the copper flange temperature at the bottom must be maintained below 25 °C. Therefore, the copper flange should be cooled by forced air cooling or water cooling.

## Applications

High-Voltage Pulse Power Supplies for Industrial Laser Oscillators, Excimer-Laser Power Supplies, Electron-Beam Equipment, Particle Accelerators, Medical X-Ray Ct Systems, and Mri Analysis Equipment, as well as for Voltage-Divider Resistors And Output-Voltage Sensing Resistors in High-Voltage Power Supplies.

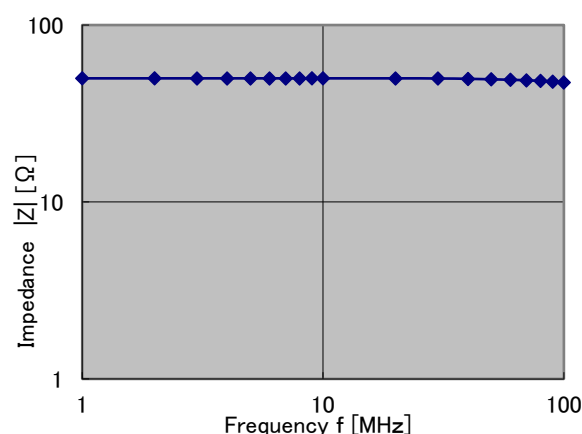
## Rated and Specification

	RPK900	RPK900L
Rated Power (W)	900*1	
Resistance Value (Ω)	25 ~ 1K	
Tolerance (%)	+/- 5	
TCR (ppm/°C)	50	
Thermal Res. (°C/W)	0.10	
Operating Temp. (°C)	-55+155	

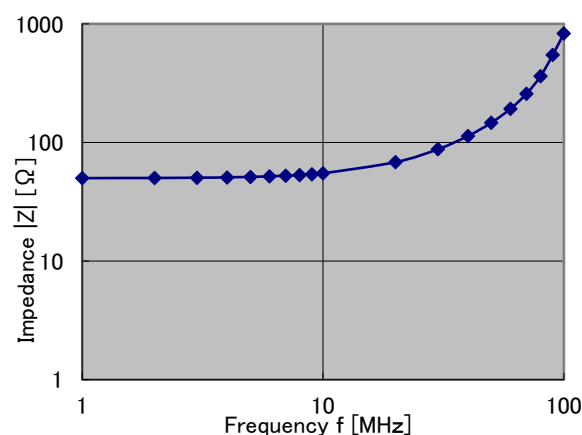
\*1 : When the flange at below +25°C

## Frequency Characteristics

### RPK900



### RPK900L



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For further inquiries, samples, or quotations, feel free to contact to us.  
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