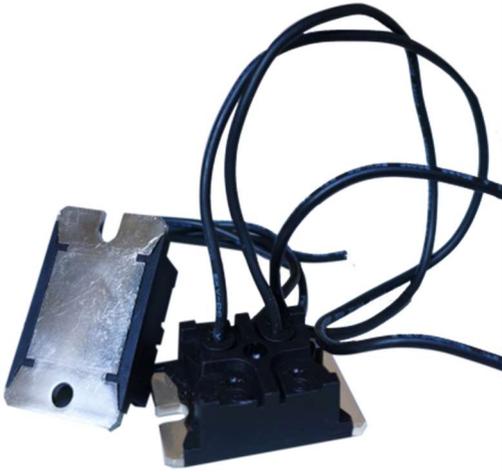


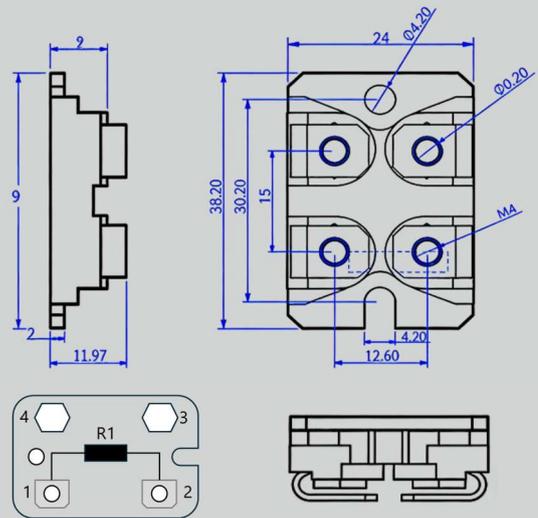
SOT227 Leaded Flanged Base RTP200 Thick-Film Resistor



- The RTP200 thick-film non-inductive power resistor, also known as the SOT227-packaged high-power resistor, utilizes the SOT227 package—an internally insulated, four-terminal power semiconductor package. It employs SMD/SMT mounting with pre-embedded resistor leads for easy mounting on heat sinks.
- The RTP200 resistor is rated at 200W and features a bottom-mounted heat sink flange design for excellent heat dissipation. Typically designed for current sensing, energy absorption and discharge, RC snubbers, high-speed switching, and high-frequency transmission circuits. Also commonly used in voltage regulation, constant power loads, and low-energy pulse loads. Applications span industries such as industrial lasers, welding equipment, test equipment, instrumentation, UPS systems, automotive, and switch-mode power supplies in end products.

Technical Specifications

Rated Power	Insulation Resistance	Maximum voltage	Output terminal	Insulation Withstand Voltage
200W	$\geq 10G\Omega$	700VDC	Tin-plated copper wire	2000VAC
Resistance range	Operating Temperature	Optional precision	TC	Installation torque
0.1 Ω	-55 $^{\circ}C$	$\pm 0.5\%$	± 100	M4 screw
1M Ω	+170 $^{\circ}C$	$\pm 5\%$	ppm/ $^{\circ}C$	1.5Nm



Performance

Test Item	Perf Req	Test Standard
Power Durability	$\Delta R \leq \pm 1R\%$	Rated power 1000h, baseplate temperature $\leq 85^{\circ}C$
Humidity Resistance	$\Delta R \leq \pm 0.25R\%$	MIL-Std-202, Method 106
Thermal Shock	$\Delta R \leq \pm 1R\%$	MIL-Std-202, Method 103, Condition D
Thermal Shock	$\Delta R \leq \pm 0.3R\%$	-65 $^{\circ}C$ to 155 $^{\circ}C$, 5 cycles
High-Frequency Vibration	$\Delta R \leq \pm 0.2R\%$	MIL-Std-202, Method 204, Condition D

