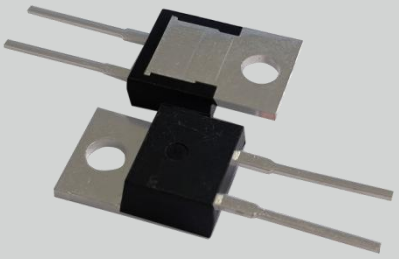
TO220 Package RTP35 Thick-Film Resistor

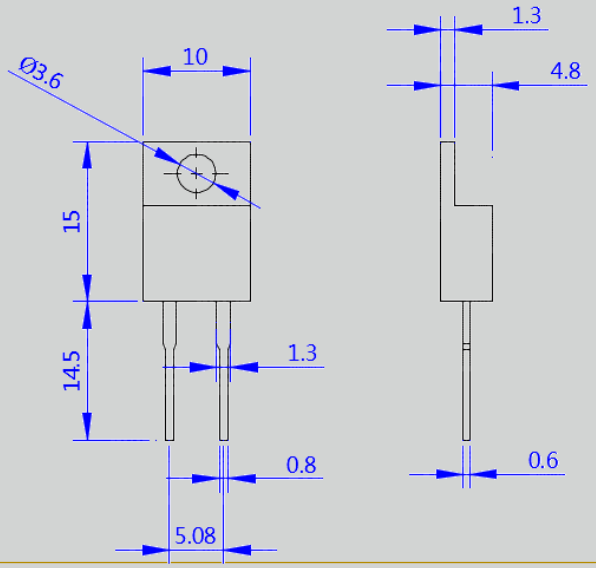


- The RTP35 thick-film non-inductive power resistor, also known as a TO220-packaged high-power resistor, utilizes the TO220 package form factor—a common through-hole package type for high-power transistors, medium-to-small-scale integrated circuits, and power resistors.
- The RTP35 resistor is rated at 35W and features a bottom-mounted heat sink flange design for superior thermal dissipation. It is typically designed for current sensing, energy absorption and dissipation, RC snubbers, high-speed switching, and high-frequency transmission circuits. It is 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 switching power

Technical Specifications

Rated Power	Insulation Resistance	Maximum voltage	Output terminal	Insulation Withstand Voltage
35W	⩾10GΩ	500VDC	Tin-plated copper wire	2000VAC

Resistance range	Operating Temperature	Optional precision	TC	Installation torque
0.1Ω—1MΩ	-55℃ +170℃	±0.5% ±5%	±100 ppm/℃	M3 maximum 0.9Nm



Test Item	Perf Req	Test Standard
Overload	ΔR≤±0.25%R	1.5P rated power not exceeding 1.5Umax, 5s
Lifetime	ΔR≤±1%R	2000h at rated power Steady-State Humidity and Heat
Steady-state humid heat	ΔR≤±0.25%R	MIL-Std-202,Method 103, Condition D
Thermal shock	ΔR≤±0.3%R	-65 to 155 ° C, 5 cycles
High-frequency vibration	ΔR≤±0.2%R	MIL-Std-202, Method 204, Condition D
Lead strength	ΔR≤±0.2%R	MIL-Std-202, Method 211, Condition A