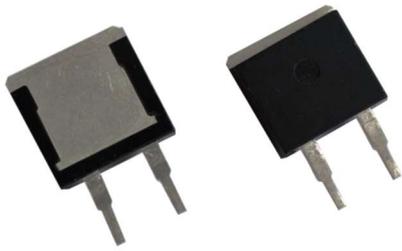


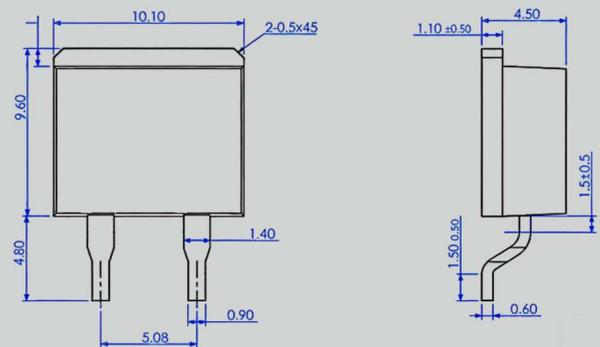
# T0263 Package RTP35T Thick-Film Resistor



- The RTP35T thick-film non-inductive power resistor, also known as a TO263-packaged high-power resistor, utilizes the TO263 package form—a common SMT surface-mount package type for high-power transistors, medium-to-small-scale integrated circuits, and power resistors.
- The RTP35T 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 supplies.

## Technical Specifications

Rated Power	Insulation Resistance	Maximum voltage	Output terminal	Insulation Withstand Voltage
35W	$\geq 10G\Omega$	500VDC	Tin-plated copper wire	2000VAC
Resistance range	Operating Temperature	Optional precision	TC	Installation torque
0.1 $\Omega$ —1M $\Omega$	-55 $^{\circ}C$ —+170 $^{\circ}C$	$\pm 0.5\%$ $\pm 5\%$	$\pm 100$ ppm/ $^{\circ}C$	M3 maximum 0.9Nm



## Performance

Test Item	Perf Req	Test Standard
Overload	$\Delta R \leq \pm 0.25\%R$	1.5P rated power not exceeding 1.5U <sub>max</sub> , 5s
Lifetime	$\Delta R \leq \pm 1\%R$	2000h at rated power Steady-State Humidity and Heat
Steady-state humid heat	$\Delta R \leq \pm 0.25\%R$	MIL-Std-202, Method 103, Condition D
Thermal shock	$\Delta R \leq \pm 0.3\%R$	-65 to 155 $^{\circ}C$ , 5 cycles
High-frequency vibration	$\Delta R \leq \pm 0.2\%R$	MIL-Std-202, Method 204, Condition D
Lead strength	$\Delta R \leq \pm 0.2\%R$	MIL-Std-202, Method 211, Condition A

