

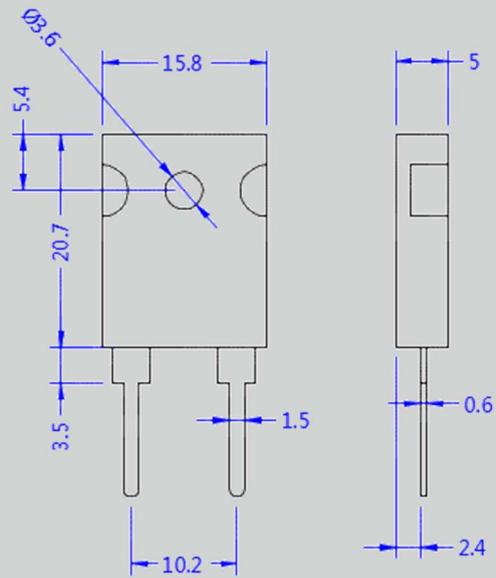
TO247 Package RTP100 Thick Film Resistor



- The RTP100 thick-film non-inductive power resistor, also known as a TO247-packaged high-power resistor, utilizes the TO247 package—a common through-hole package form for high-power transistors, medium-to-small-scale integrated circuits, and power resistors
- The RTP100 resistor is rated at 100W and is used in power supply input stages, CRT power loads and discharge resistors, low-energy pulse loads, voltage rectifiers, buffer circuits, and UPS systems

Technical Specifications

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

