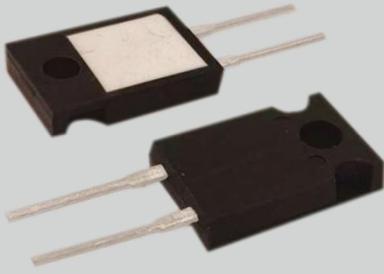


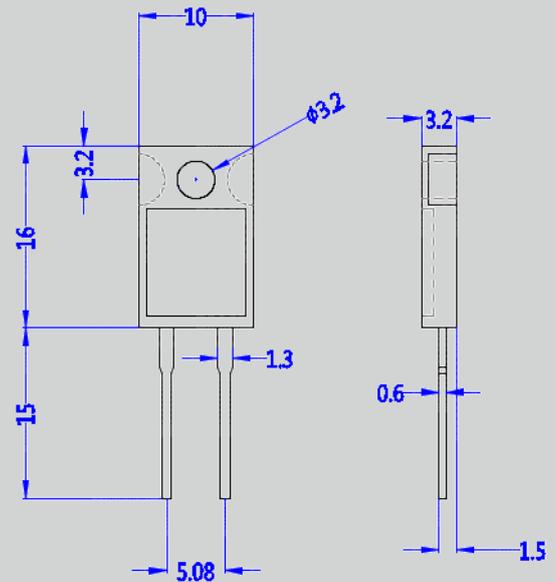
T0220 Package RTP30 Thick-Film Resistor



- The RTP30 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 RTP30 resistor is rated at 30W. It is used in power supply input stages, low-energy pulse loads, RF power amplifier terminating resistors, voltage rectifiers, buffer circuits, UPS systems, and similar applications.

Technical Specifications

Rated Power	Insulation Resistance	Maximum voltage	Output terminal	Insulation Withstand Voltage
30W	$\geq 10G\Omega$	500VDC	Tin-plated copper wire	2000VAC
Resistance range	Operating Temperature	Optional precision	TC	Installation torque
0.1 Ω —	-55 $^{\circ}C$ —	$\pm 0.5\%$	± 100	M3/
1M Ω	+170 $^{\circ}C$	$\pm 5\%$	ppm/ $^{\circ}C$	0.9mN



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

