LXP50

Power Type Thick Film Non Inductive Resistor

Product Features

• Installed on the radiator, with a rated power of 50 watts at 25℃; The rated power is 3 watts at room temperature of 25℃ without using heat sinks

• TO-220 Molded plastic packaging

• Only one M3 (3mm) screw is needed to install it on the radiator

• Highly protective molded plastic outer box, and easy to install

• High insulation degree

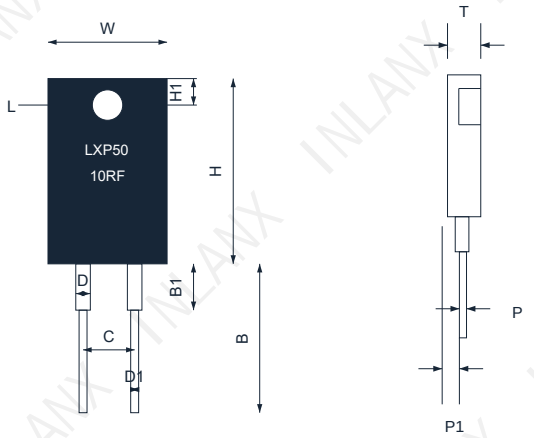
• Sensorless design



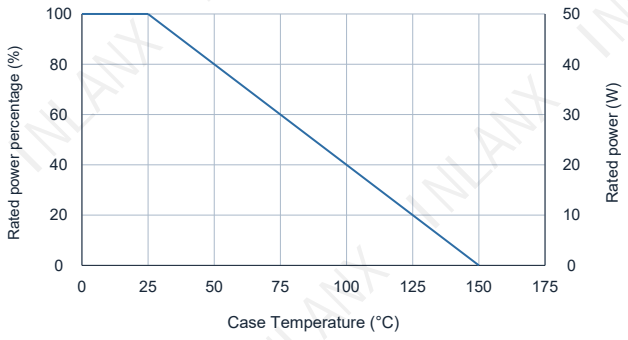
Applications

Used for the inlet end of power supplies, low-energy pulse loads, terminal resistors of RF power amplifiers, voltage rectifiers, buffer circuits, UPS

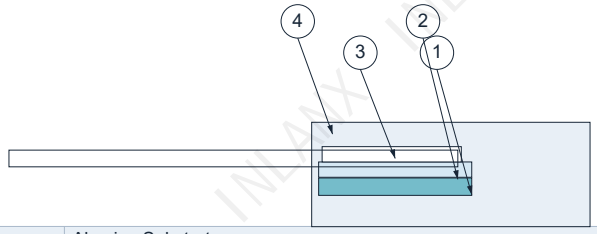
Dimensions (mm)



Derating Curve

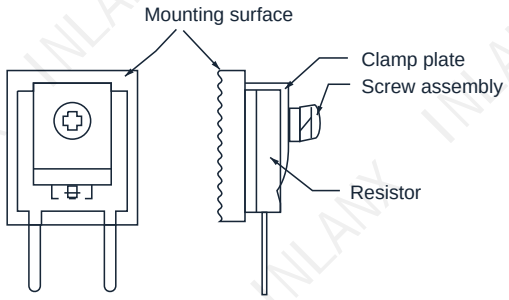


Structural Diagram



1	Alumina Substrate
2	Resistor Layer
3	Lead
4	Molding

Installation Diagram



Type	W ±0.3	H ±0.5	H1 ±0.1	B ±0.5	B1 ±0.1	D ±0.1	D1 ±0.1	L ±0.1	C ±0.3	T ±0.3	P ±0.1	P1 ±0.1
LXP50	10.8	15.8	3.18	12.5	3.2	1.35	0.8	3.18	4.3	3.2	0.6	1.6

LXP50

Test Items & Ordering

Test Items and Methods

Test project	Basic Requirements	Test Method
Short term overload	▵R±0.3%	2 times the rated power, but not exceeding 1.5 times the maximum withstand voltage, for 5 consecutive seconds
Load Life	▵R±1.0%	2000 hours at rated power
Humidity test	▵R±0.5%	Maintain 1000 hours at maximum operating voltage at 40±2℃ and 90-95% humidity (1.5 hours "on", 0.5 hours "off")
solderability	More than 90% covered with new tin	245±5℃ for 3 seconds
Thermal Shock	▵R±0.3%	65℃~+150℃, 100 cycles
Lead strength	▵R±0.2%	(Tensile test) 2.4 Newtons
High-frequency vibration	▵R±0.2%	20 grams of vibration
Dielectric Strength	▵R±0.15%	1800v AC, 60 seconds
Temperature Cycling	ΔR±0.3%	-65°C~+150°C, 1000 cycles

Ordering Example: LXP50-120R-J

LXP50	50W	120R	J
Model LXP50	Rated power 50 W	Resistance 120R	Accuracy D: 0.5% F: ±1% J: ±5%