LXP35S

Power Type Thick Film Non Inductive Resistor

Product Features

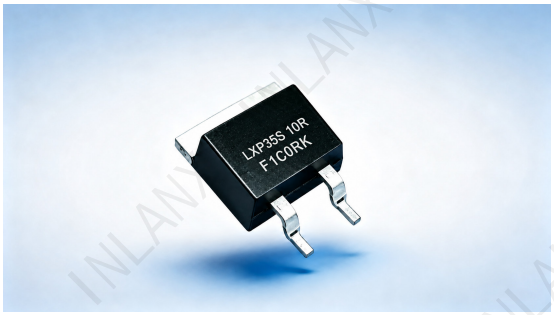
• Installed on the radiator, the center temperature of the bottom plate is ≤25℃, and the rated power is 35W; The rated power is 2.5 watts at room temperature of 25℃ without using heat sinks

• Surface mount (SMD) TO-263 molded package

• After adding heat sinks, the thermal resistance Rth is less than 4.28ºK/W

• Can withstand reflow soldering temperature of 270℃/10S

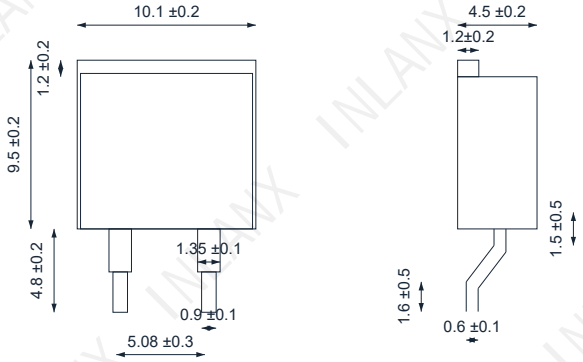
• Conductive parts and metal substrate insulation



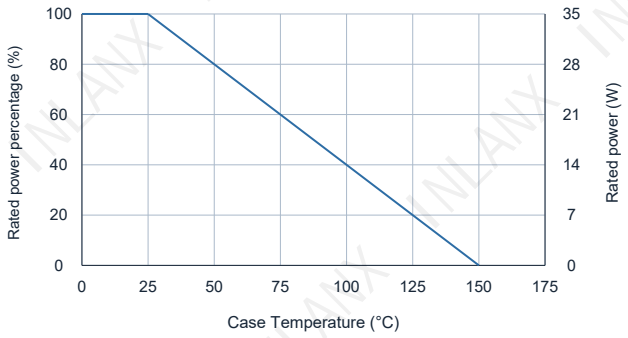
Applications

Switching Power Supplies, Snubbers Circuits, Automated Machine Controller, RF Power Amplifiers, Low Energy Pulse Loading - UPS, Voltage Regulatio

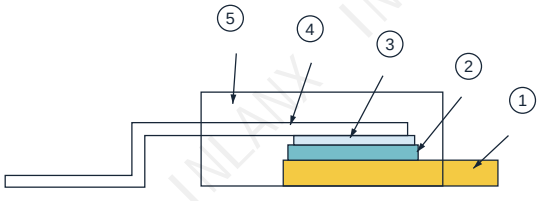
Dimensions (mm)



Derating Curve

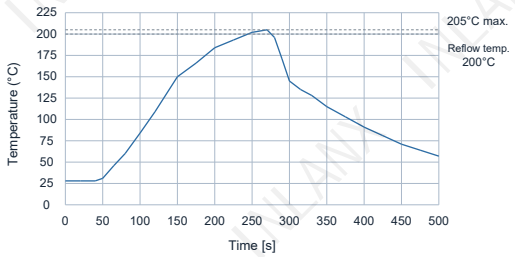


Structural Diagram



1	Radiator Fin
2	Alumina Substrate
3	Resistor Layer
4	Copper Lead
5	Molding

Reflow Soldering Curve



Maximum operating voltage	350V	Voltage endurance	1800VAC
Insulation resistance	10GΩ min	Working temperature range	- 65 °C to+150 °C

LXP35S

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: LXP35S-120R-J

LXP35S	35W	120R	J
Model LXP35S	Rated power 35 W	Resistance 120R	Accuracy D: 0.5% F: ±1% J: ±5%