

Series LXP-150 TO-247

150 W Thick Film Resistor for high-frequency and pulse-loading applications

A Miba Group Company

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EBG Resistor offers the completely encapsulated and insulated TO-247 package for low ohmic value and Non-Inductive design for high-frequency and pulse-loading applications. Ideal use for power supplies. The LXP-150 series is rated at 150W mounted to a heat sink.

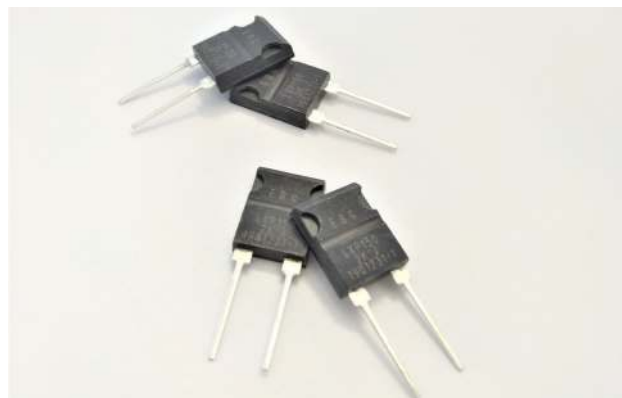
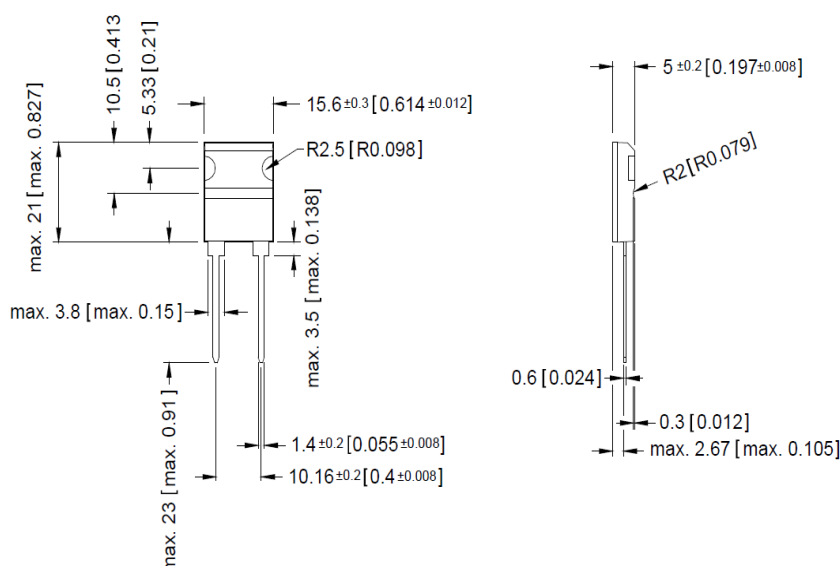
Features

- 150 W operating power
- TO-247 package configuration
- Clip mounting simplifies attachment to heat sink
- Non-Inductive design

Technical Specifications

Resistance value	$0.2\ \Omega \leq 1\ \text{M}\Omega$
Resistance tolerance	$\pm 1\%$ to $\pm 10\%$ $\pm 0.5\%$ on special request for limited ohmic values
Temperature coefficient	$> 10\text{R}$: $\pm 50\ \text{ppm}/^\circ\text{C}$ referenced to 25°C , ΔR taken at $+105^\circ\text{C}$ (other TCR on special request for limited ohmic values)
Power rating	150 W at 45°C bottom case temperature
Maximum operating voltage	700 V DC
Dielectric strength	1800 V AC
Insulation resistance	min. $10\ \text{G}\Omega$
Momentary overload	2 times rated power, but no more than 1.5 time max. continuous operating voltage, last 5s, $\Delta R \leq \pm(0.3\%R + 0.001\Omega)$
Load life	2,000 hours at rated power, MIL-R-39009D $\Delta R \leq \pm(1.0\%R + 0.001\Omega)$
Moisture resistance	MILStd.-202, method 106, $\Delta R \leq \pm(0.5\%R + 0.001\Omega)$
Thermal shock	MILStd.-202, method 107, Cond. F $\Delta R \leq \pm(0.3\%R + 0.001\Omega)$
Terminal strength	MILStd.-202, method 211, Cond. A (pull test) $2.4\ \text{N}$ $\Delta R \leq \pm(0.2\%R + 0.001\Omega)$
Vibration, high frequency	MILStd.-202, method 204, Cond. D $\Delta R \leq \pm(0.2\%R + 0.001\Omega)$
Working temperature	-55°C to $+175^\circ\text{C}$
Lead material	tinned copper
Weight	$\sim 4,2\ \text{g}$

Dimensions in mm [inches]



Derating (thermal resist.) LXP-150:
0.87 W/K (1.15 K/W)

Without a heat sink, when in open air at 45°C , the LXP-150 is rated for 4.5 W.

How to make an order

LXP-150_Ohmic Value_Tolerance

For example:

LXP-150 50R 5%

Application Standard

- IEC60115-1 : 2001 (GB/T5729-2003)
- MIL-STD-202
- MIL-R-39009D
- AEC-Q200