

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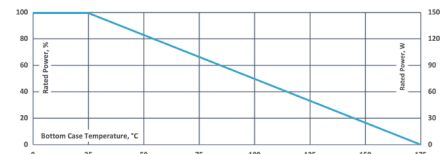
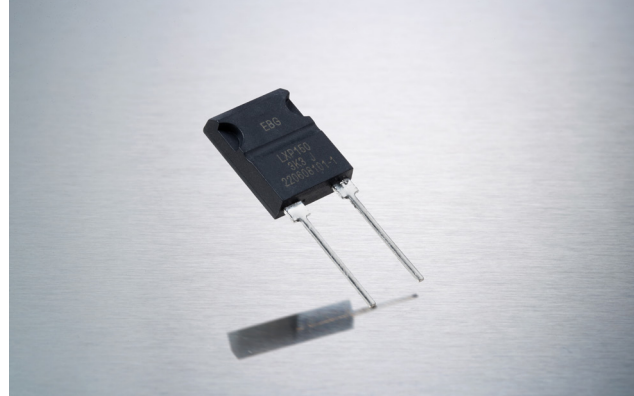
EBG Resistor offers the completely encapsulated and insulated TO-247 package for low ohmic value and Non-Inductive design for high-frequency and pulse-loading applications. Ideal use for power supplies. The LXP-150 series is rated at 150W mounted to a heat sink.

## Features

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

## Technical Specifications

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



Derating (thermal resist.) LXP-150:  
1.00 W/K (1.0 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 a request

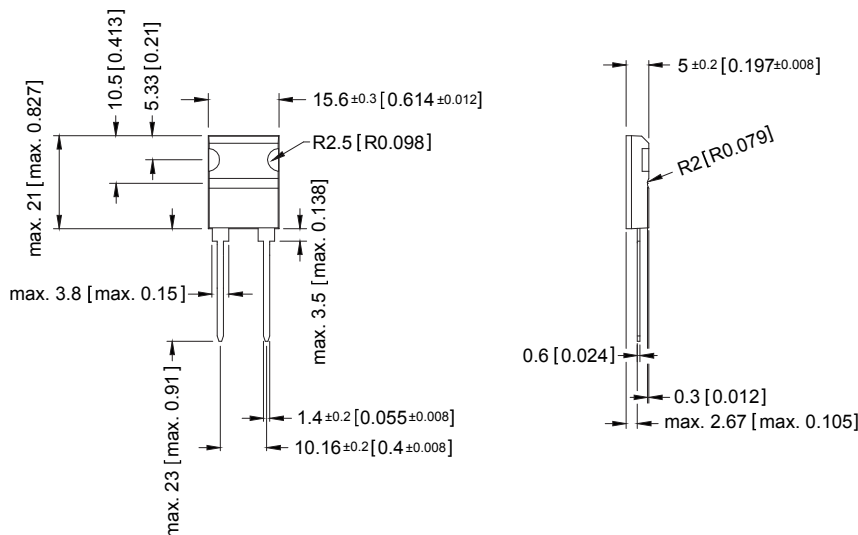
LXP-150\_Ohmic Value\_Tolerance

**For example:**  
LXP-150 50R 5%

## Application Standard

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

## Dimensions in mm [inches]



The above spec. sheet features our standard products. For further options please contact our local EBG representative or contact us directly.

sales@ebg-resistors.com · sales@ebg-us.com

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