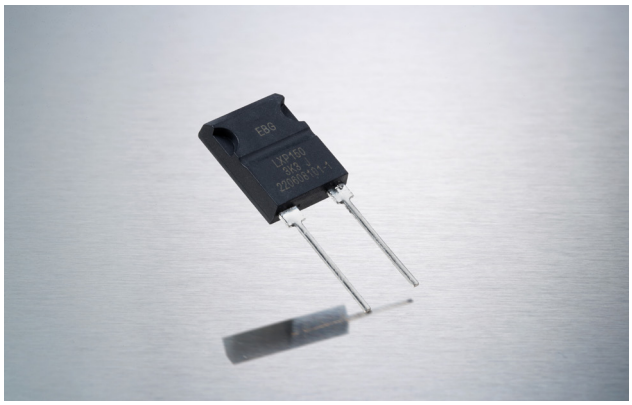
Series LXP-150 TO-247

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

AEC-Q200 ready

Miba Resistors 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.

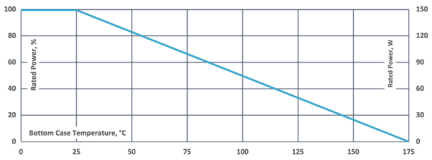


Features

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

Technical Specifications

Resistance value	0.2 Ω to 1 MΩ
Resistance tolerance	±1 % to ±10 % ±0.5 % on special request for limited ohmic values
Temperature coefficient	> 10R: ±50 ppm/°C referenced to 25°C, ΔR taken at +105°C (other TCR on special request for limited ohmic values)
Power rating	150 W at 25°C bottom case temperature
Maximum operating voltage	700 V DC
Dielectric strength	1800 V AC
Insulation resistance	min. 10 GΩ
Momentary overload	2 times rated power, but no more than 1.5 time max. continuous operating voltage, last 5s, ΔR ≤ ±(0.3%R + 0.001Ω)
Load life	2000 h at rated power, MIL-R-39009D ΔR ≤ ±(1.0%R + 0.001Ω)
Moisture resistance	MIL-Std.-202, method 106, ΔR ≤ ±(0.5%R + 0.001Ω)
Thermal schock	MIL-Std.-202, method 107, Cond. F ΔR ≤ ±(0.3%R + 0.001Ω)
Terminal strength	MIL-Std.-202, method 211, Cond. A (pull test) 2.4 N ΔR ≤ ±(0.2%R + 0.001Ω)
Vibration, high frequency	MIL-Std.-202, method 204, Cond. D ΔR ≤ ±(0.2%R + 0.001Ω)
Working temperature	-55°C to +175°C
Lead material	tinned copper
Weight	~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

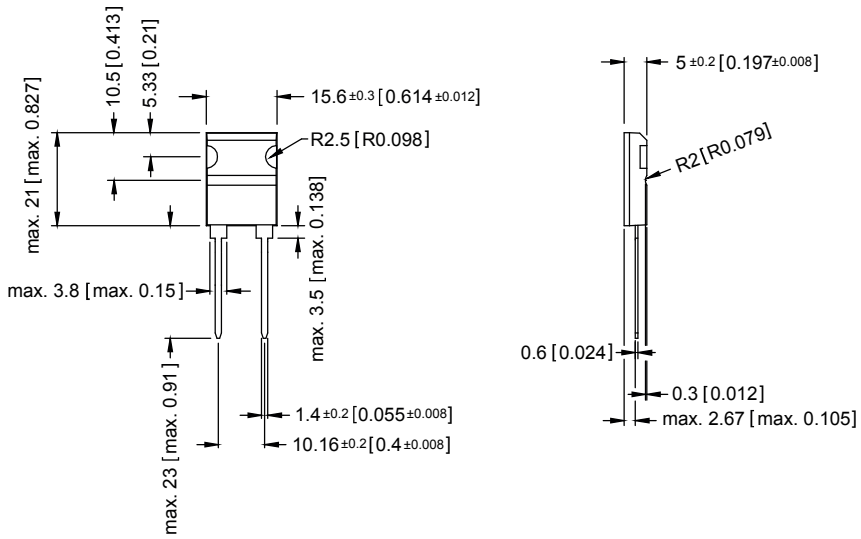
LXP-150_Ohmic Value_Tolerance

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 your local Miba Resistors representative.

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