

Series LXP 150

Miba offers the completely encapsulated and insulated TO-247 package for low ohmic value and non-Inductive design for high-frequency and pulse-unloading applications. The LXP 150 series is rated at 150 W mounted to a heat sink.

Features

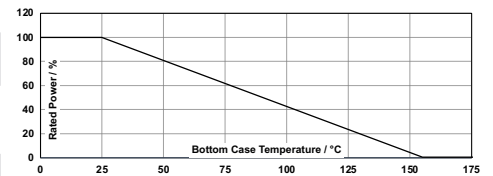
- 150 W operating power
- TO-247 package configuration
- Clip mounting simplifies attachment to heat sink



Technical Specifications

Resistance value	0.05 Ω to 1 M Ω
Resistance tolerance	$\pm 1\%$ to $\pm 10\%$ $\pm 0.5\%$ on special request for limited ohmic values
Temperature coefficient	$> 10\ \Omega$: $\pm 50\text{ ppm}/^\circ\text{C}$ referenced to $25\ ^\circ\text{C}$, ΔR taken at $+105\ ^\circ\text{C}$ (other TCR on special request for limited ohmic values)
Power rating	150 W at $25\ ^\circ\text{C}$ bottom case temperature
Operation voltage	700 V DC
Dielectric strength	1800 V AC
Insulation resistance	min. 10 G Ω
Short time overload	2 times rated power, but no more than 1.5 time max. continuous operating voltage, last 5 s, $\Delta R \leq \pm(0.3\%R + 0.001\ \Omega)$
Load life	2000 h at rated power, MIL-R-39009D $\Delta R \leq \pm(1.0\%R + 0.001\ \Omega)$
Moisture resistance	MIL-Std.-202, method 106, $\Delta R \leq \pm(0.5\%R + 0.001\ \Omega)$
Thermal shock	MIL-Std.-202, method 107, Cond. F $\Delta R \leq \pm(0.3\%R + 0.001\ \Omega)$
Terminal strength	MIL-Std.-202, method 211, Cond. A (pull test) $2.4\text{ N } \Delta R \leq \pm(0.2\%R + 0.001\ \Omega)$
Vibration, high frequency	MIL-Std.-202, method 204, Cond. D $\Delta R \leq \pm(0.2\%R + 0.001\ \Omega)$
Operating temperature	$-55\ ^\circ\text{C}$ to $+155\ ^\circ\text{C}$
Lead material	tinned copper
Weight	$\sim 4,2\text{ g}$

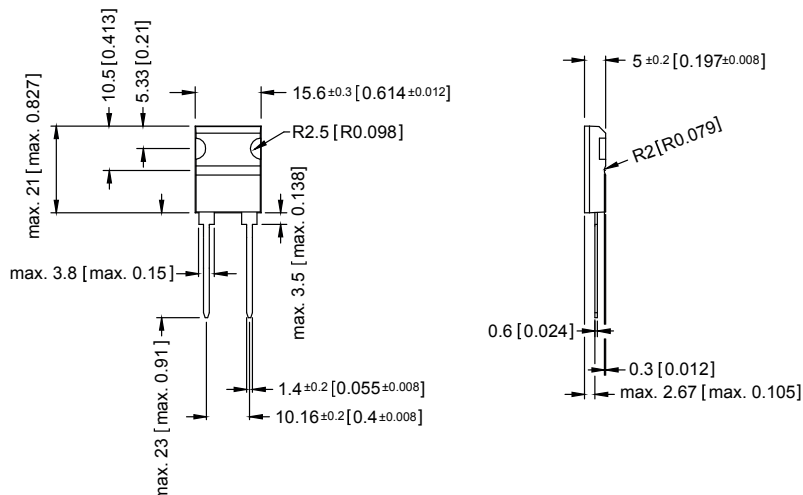
Derating Curve



Typical Pulse Load (initial resistor temperatur $\leq 85\ ^\circ\text{C}$)

30 J for $\tau = 0.1\text{ s}$
 45 J for $\tau = 0.2\text{ s}$
 65 J for $\tau = 0.5\text{ s}$

Dimensions in mm [inches]





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