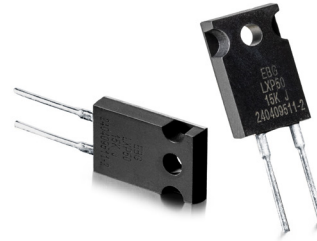


Series LXP 50

Miba offers the totally encapsulated and insulated TO-220 package for low ohmic value and non-inductive design for high-frequency and pulse-unloading applications. The LXP 50 series is rated at 50 W mounted to a heat sink.

Features

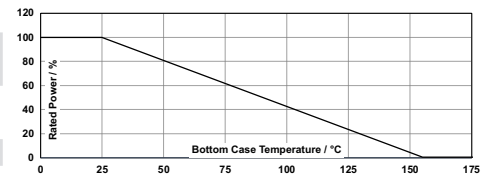
- 50 W operating power
- TO-220 package configuration
- Single-screw mounting simplifies attachment to heat sink
- Fully isolated heat sink



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	± 50 ppm/ $^{\circ}\text{C}$ (referenced to 25 $^{\circ}\text{C}$, ΔR taken at ~ 105 $^{\circ}\text{C}$)
Power rating	50 W at 25 $^{\circ}\text{C}$ bottom case temperature
Operation voltage	420 V
Dielectric strength voltage	1800 V AC
Insulation resistance	> 10 G Ω at 1000 V DC
Short time overload	2x rated power with applied voltage not to exceed 1.5x maximum continuous operating voltage for 5 s $\Delta R \pm(0.3\% + 0.001 \Omega)$ max.
Load life	MIL -R-39009D, 2000 h at rated power, $\Delta R \pm(1.0\% + 0.001 \Omega)$ max.
Moisture resistance	MIL -STD-202, method 106 $\Delta R \pm(0.5\% + 0.001 \Omega)$ max.
Thermal shock	MIL -STD-202, method 107, Cond. F, $\Delta R \pm(0.3\% + 0.001 \Omega)$ max.
Terminal strength	MIL -STD-202, method 211, Cond. A (Pull Test) 2.4 N, $\Delta R \pm(0.2\% + 0.001 \Omega)$ max.
Vibration, high frequency	MIL -STD-202, method 204, Cond. D, $\Delta R \pm(0.2\% + 0.001 \Omega)$ max.
Lead material	tinned copper
Mounting	M3 screws, max. torque 0.9 Nm
Operating temperature	- 55 $^{\circ}\text{C}$ to + 155 $^{\circ}\text{C}$

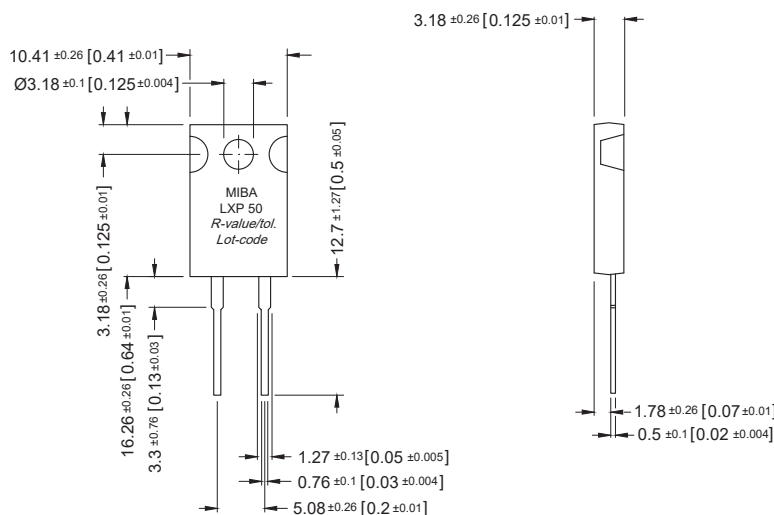
Derating Curve



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

18 J for $\tau = 0.1$ s
24 J for $\tau = 0.2$ s
36 J for $\tau = 0.5$ s

Dimensions in mm [inches]





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