

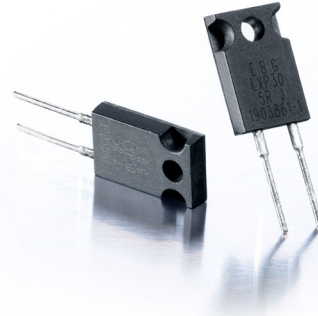
Series LXP 30

AEC-
Q200
ready

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 30 series is rated at 30 W mounted to a heat sink.

Features

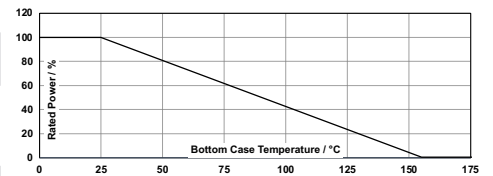
- 30 W operating power
- TO-220 package configuration
- Single-screw mounting simplifies attachment to heat sink
- Fully isolated heat sink



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	$> 10\ \Omega \pm 50\ \text{ppm}/^\circ\text{C}$ $1\ \Omega$ to $10\ \Omega \pm 100\ \text{ppm}/^\circ\text{C} + 0.002\ \Omega$ (referenced to $25\ ^\circ\text{C}$, ΔR taken at $\sim 105\ ^\circ\text{C}$)
Power rating	30 W at $25\ ^\circ\text{C}$ bottom case temperature
Operation voltage	420 V
Dielectric strength	1800 V AC
Insulation resistance	$> 10\ \text{G}\Omega$ 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	anti-oxidation tinned copper wire
Mounting	M3 screw, max. torque 0.9 Nm
Operating temperature	$-55\ ^\circ\text{C}$ to $+155\ ^\circ\text{C}$

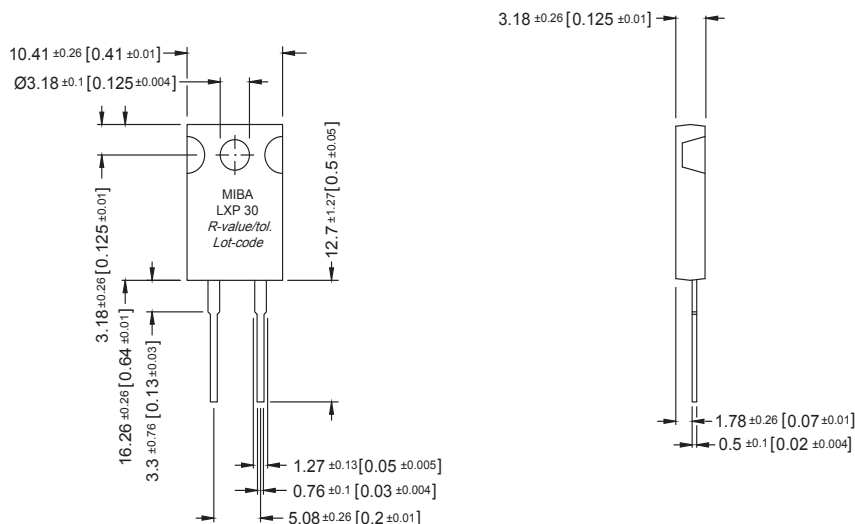
Derating Curve



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

12 J for $\tau = 0.1\ \text{s}$
16 J for $\tau = 0.2\ \text{s}$
24 J for $\tau = 0.5\ \text{s}$

Dimensions in mm [inches]





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