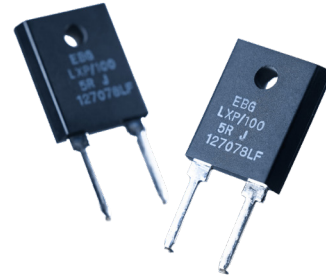


Series LXP 100

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 100 series is rated at 100 W mounted to a heat sink.

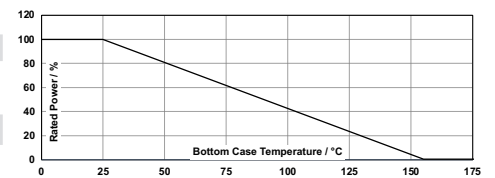
Features

- Small and lightweight
- Easy PCB mount with solder pins possible
- Fast heat sink connection with clip or screw



Resistance value	0.05 Ω to 1 M Ω
Resistance tolerance	$\pm 1\%$ to $\pm 10\%$
Temperature coefficient	$> 10\ \Omega$: $\pm 50\text{ ppm}/^{\circ}\text{C}$ (referenced to 25 $^{\circ}\text{C}$, ΔR taken at + 105 $^{\circ}\text{C}$)
Power rating	100 W at 25 $^{\circ}\text{C}$ bottom case temperature
Short time overload	1.5x rated power with applied voltage not to exceed 1.5x V max. for 5 s, $\Delta R < \pm(0.50\% + 0.0005\ \Omega)$
Operation voltage	350 V, max. 500 V on special request
Insulation resistance	$> 10\ \text{G}\Omega$ at 1000 V DC
Dielectric strength voltage	1800 V AC
Load life	MIL -R-39009D 4.8.13, 2000 h at rated power, $\Delta R < \pm(1.0\% + 0.0005\ \Omega)$
Moisture resistance	-10 $^{\circ}\text{C}$ to +65 $^{\circ}\text{C}$, RH > 90 % cycle 240 h, $\Delta R < \pm(0.50\% + 0.0005\ \Omega)$
Thermal shock	MIL -STD-202, method 107, Cond. F, $\Delta R < \pm(0.50\% + 0.0005\ \Omega)$
Terminal strength	MIL -STD-202, method 211, Cond. A (Pull Test) 2.4 N $\Delta R < \pm(0.20\% + 0.0005\ \Omega)$
Vibration, high frequency	MIL -STD-202, method 204, Cond. D, $\Delta R < \pm(0.40\% + 0.0005\ \Omega)$
Inductance (serial)	typical 20 nH, measuring frequency 10 kHz
Lead material	tinned copper
Mounting	0.7 Nm to 0.9 Nm M4 using a M3 screw and a compression washer mounting technique
Weight	$\sim 4\text{ g}$

Derating Curve

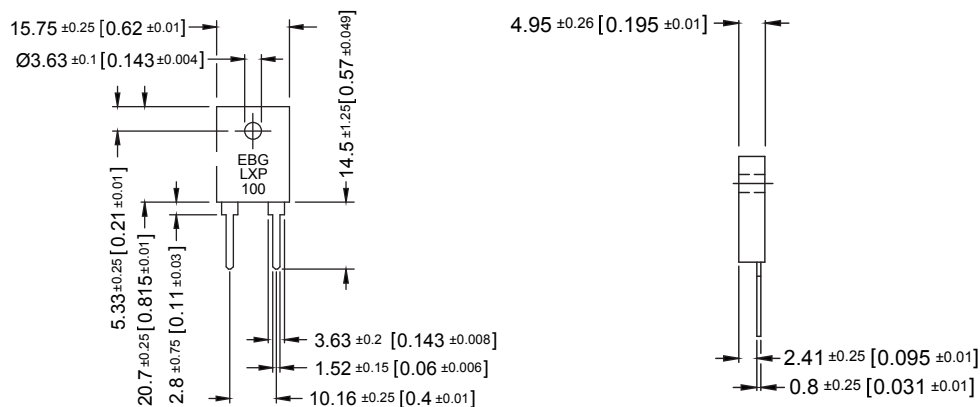


Typical Pulse Load

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

30 J for $\tau = 0.1\text{ s}$
40 J for $\tau = 0.2\text{ s}$
60 J for $\tau = 0.5\text{ s}$

Dimensions in mm [inches]





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