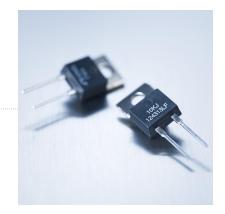
Series MXP 35 TO-220

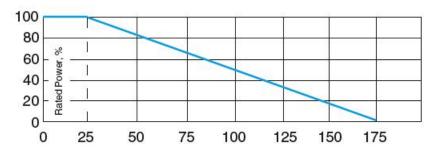
35 W Thick Film Resistor for high-frequency and pulse-loading applications

- ■35 W operating power
- ■TO-220 package configuration
- ■Single-screw mounting simplifies attachment to heat sink
- ■Non-Inductive design
- ■ROHS compliant
- ■Materials in accordance with UL 94 V-0



Product Detail:

1. Derating

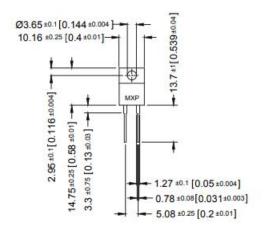


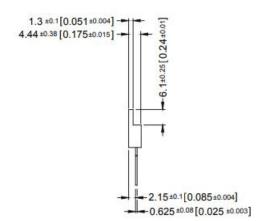
Derating (thermal resist.) MXP-35: 0.23 W/K (4.28 K/W)

Without a heat sink, when in open air at 25°C, the MXP-35 is rated for 2.50 W. Derating for temperature above 25°C is 0.02 W/K.

Case temperature must be used for definition of the applied power limit. Case temperature measurement must be done with a thermocouple contacting the center of the component mounted on the designed heat sink. Thermal grease should be applied properly.

2. Dimensions in millimeters





3. Specifications

Resistance ranges: $0.05 \Omega \le 1 M\Omega$ (other values on special request)

Resistance Tolerance: $\pm 1 \%$ to $\pm 10 \%$

 ± 0.5 % on special request for limited ohmic values

Temperature Coefficient: $< 3 \Omega$: ask for details

 \geq 3 Ω < 10 Ω : \pm 100 ppm + 0.002 Ω /°C

 \geq 10 Ω : \pm 50 ppm/°C (referenced to 25 °C, Δ R taken at +85°C)

Power rating:35 W at 25°C bottom case temperature

Maximum operating voltage: 350 V

Dielectric strength voltage: 1,800 V AC

Insulation resistance:> $10 \text{ G}\Omega$ at 1,000 V DC

Momentary overload: 2x rated power with applied voltage not to exceed 1.5x maximum continuous

operating voltage for 5 sec. $\Delta R \pm (0.3 \% + 0.01 \Omega)$ max.

Moisture resistance:MIL-STD-202, method 106 $\Delta R = (0.5 \% + 0.01 \Omega)$ max.

Thermal shock:MIL-STD-202, method 107, Cond. F, $\Delta R = (0.3 \% + 0.01 \Omega)$ max

Working temperature range:-55°C to +175°C

Load life:MIL-R-39009, 2,000 hours at rated power, $\Delta R \pm (1.0 \% + 0.01 \Omega)$ max.

Terminal strength:MIL-STD-202, method 211, Cond. A (Pull Test) 2.4 N, $\Delta R = (0.2 \% + 0.01 \Omega)$ max.

Vibration, high frequency:MIL-STD-202, method 204, Cond. D, $\Delta R = (0.2 \% + 0.01 \Omega)$ max.

Lead material:tinned copper

Torque:0.7 Nm to 0.9 Nm

Heat resistance to cooling plate:Rth < 4.28 K/W

Weight:~2 g

4. Ordering Information

Type ohmic Value TOL

MXP35 100R 5%