



Radial Leaded High Power Resistors



Type MPR Series



This small size non-inductive, high power resistor is an innovative and significant first for Tyco Electronics. Occupying a standard T0220 package it is ideally suited to positions where high power dissipation, small size and light tolerance are key design requirements.

This series is an ideal solution for the output side of high speed pulse generators, a surge absorption resistor in switch mode power supplies and for monitors, display terminals, scientific workstations and other brown and white goods.

Key Features

- Small Size (T0220 Package)
- Easy to Mount
- Non Inductive
- High Frequency Range up to 300 MHz
- Temperature Range -55°C to +155°C
- High Power 20W with Suitable Heatsink
- Voltage Proof 2000V dc
- Non Flammable

Characteristics -Electrical

Type MPR Series

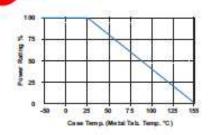
| Resistance Range: | R22 - R91 | 1R0 - 9R1 | 10R - 51K |
|--|--|-----------|-----------|
| Resistance Tolerance: | 5% | 5% | 1%/5% |
| Temp. Coefficient of Resistance (TCR): | 250ppm/°C | 100ppm/°C | 50ppm/°C |
| Rated Power (on Suitable Heatsink): | 20 Watts | | |
| Rated Power (W/O Heatsink): | 2 Watts * (See note below) | | |
| Equivalent Parallel Capacitance: | 1.0 pF | | |
| Maximum Operating Voltage: | 500 V dc | | |
| Withstand Voltage: | 2000 V dc (Between terminals and heatsink) | | |
| Operating Temperature Range: | 65°C to +155°C | | |
| Rated Ambient Temperature: | -25°C to +40°C | | |

^{*} With a 5.8°C watt heatsirk or better at a 25°C ambient temperature, 20 watts can be dissipated A larger heatsirk will allow the resistor to sun at a lower temperature.

Characteristics -Mechanical

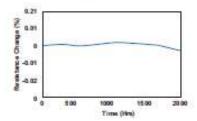
| | Test Condition | Specification |
|------------------------|---|---|
| Life (Rated Power): | 40°C, rated power, 90 mil. n. 30 min off, 100 murs | ΔR ± (1.0% + 0.05 ohm) |
| Life (Moisture Load): | 60°C, 90 95% RH, 3od power, 90 min 91 30 min OF 1000 hours | ΔR ± (1.0% + 0.05 ohm) |
| Temperature Cycling: | Room amp 355°C 30 min > RT, 10 min = 120°C 30 min > RT 10 5 cycle | AR ± (0.25% + 0.05 ahm) |
| Short Time Overload: | Rated volta 2.5, 5 sec | AR ± (0.25% + 0.05 ohm) |
| Soldering Heat: | 50°C solder pot, 3 sec | $\Delta R \pm (1.0\% + 0.05 \text{ chm})$ |
| insulation Resistance: | D5 V0 V, 1 min | Over 1000M ohm |
| Vibration: | 0 - 50 Hz, 1 min, 29G, X-Y-Z 1 hour | AR ± (0.5% + 0.05 ohm) |
| | | |

Power Perating Corve



Load Life in High Temperature & Humidity

(70°C 95% DC Rated Power x 0.1) Continuous





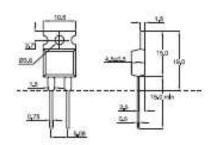


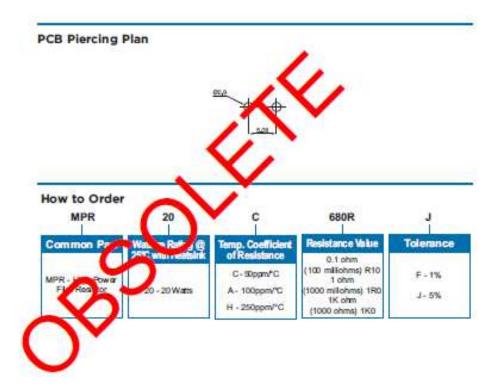
Radial Leaded High Power Resistors



Type MPR Series

Dimensions





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Metal Film Resistors - Through Hole category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C1501GPB14 RLR05C6201GS RLR20C3240FRB14 RLR20C51R0GMB14 RLR32C7R50FMB14 RNC55H4642FPB14 HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F51R LR2F910R ERX-2SZJR20E SQMR74K7J FMF-25FTF52-100K FRN25J47R FRN50J100RS FRN50J470RS H4100RBZA