



# Radial Leaded High Power Resistors



# Type MPR Series

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

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 300MHz
- Temperature Range -55°C to +155°C
- High Power 20W with Suitable Heatsink
- Voltage Proof 2000V dc
- Non Flammable

#### Characteristics -

Electrical

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 do (Between terminals and heatsink)		
Operating Temperature Range:	-55°C to +155°C		
Rated Ambient Temperature:	~25°C to +40°C		

\* With a 5.8°C watt heatsink or better at a 25°C ambient temperature, 20 watts can be dissipated A larger heatsink will allow the resistor to run at a lower temperature.

	Test Condition	Specification
Life (Rated Power):	40°C, rated power, 90 million, 30 min off, 102 murs	AR ± (1.0% + 0.05 ohm)
Life (Moisture Load):	60°C, 90 95% RH, sted power, 90 min 24 30 min OF 1000 hours	ΔR ± (1.0% + 0.05 ohm)
Temperature Cycling:	Roomamp 155°C 30 min > RT, 10 min = 120°C 30 min > RT 10 10 5 cyd	AR ± (0.25% + 0.05 ohm)
Short Time Overload:	Rated volta 2.5, 5 sec	AR ± (0.25% + 0.05 ohm)
Soldering Heat:	50°C solder pot, 3aec	AR ± (1.0% + 0.05 ahm)
Insulation Resistance;	D3 10 12, 1 min	Over 1000M ohm
Vibration:	0-50 Hz, 1 min, 20G, X-Y-Z 1 hour	ΔR ± (0.5% + 0.05 ohm)
-		



## Load Life in High Temperature & Humidity

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



## 1773251 Rev. D 05/2018

Dimensions in millimetres unless otherwise specified **Dimensions Shown for** reference purposes only. Specifications subject to change

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