



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

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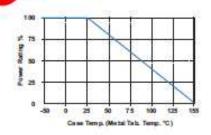
Resistance Range:	R22 - R91	1R0 - 9R1	10R - 51K
Resistance Tolerance:	5%	5%	1%/5%
Temp. Coefficient of Resistance (TCR):	250ppm/°C	100ppm/°C	50ppm/°C
Rated Power (on Suitable Heatsink):	20 Watts		
Rated Power (W/O Heatsink):	2 Watts * (See note below)		
Equivalent Parallel Capacitance:	1.0 pF		
Maximum 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

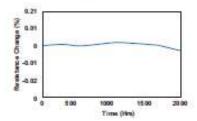
	Test Condition	Specification
Life (Rated Power):	40°C, rated power, 90 mil. n. 30 min off, 100 murs	ΔR ± (1.0% + 0.05 ohm)
Life (Moisture Load):	60°C, 90 95% RH, 3od power, 90 min 91 30 min OF 1000 hours	ΔR ± (1.0% + 0.05 ohm)
Temperature Cycling:	Room amp 355°C 30 min > RT, 10 min = 120°C 30 min > RT 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





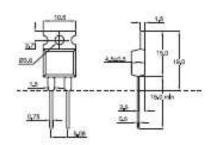


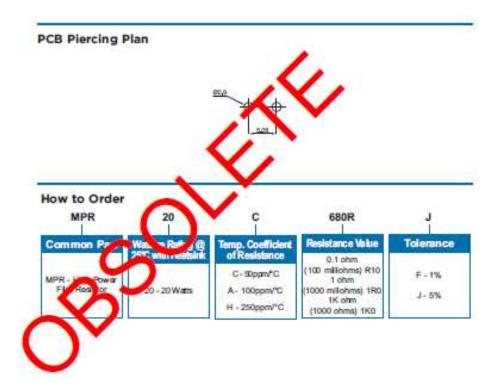
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Dimensions





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