radial thin film - 20 watts

Key features

- small size (TO220)
- easy to mount
- non inductive
- high frequency range up to 300MHz
- 20 watts on heatsink
- voltage proof to 2000 V ac
- non flammable



Specification

Electrical

Resistance Range: Resistance Tolerance: Temperature Coefficient of Resistance: Rated Power (On Suitable Heatsink): Rated Power (W/O Heatsink): Equivalent Parallel Capacitance (100MHz): Maximum Operating Voltage: Dielectric Withstand Voltage: (Between Terminal and Heatsink) Operating Temperature Range: Rated Ambient Temperature: 0.22R - 51K E24 - 1%, E12 - 5% 50, 100, 250 ppm/°C 20 Watts 2 Watts 1.0 pF 500 V dc 2000 V dc

-55°C to +155°C -25°C to +40C

Environmental

Test Type	Test Condition	Specification
Life (Rated Power):	40°C, Rated Power, 90 Min On	$\pm (1.0\% + R05)$
	30 Min off, 1000 Hours	
Life (moisture Load):	60°C, 90-95% RH, Rated Power	$\pm (1.0\% + R05)$
	90 Min ON, 30 Min OFF, 1000 Hours	
Temperature Cycling:	Room Temperature >-55°C 30 Min> RT	$\pm (0.25\% + R05)$
	10 Min ±120°C, 30 Min > RT 10	
	Min, 5 Cycles	
Short Term Overload:	Rated Voltage x 2,5, 5 seconds	$\pm (0.25\% + R05)$
Soldering Heat:	350C Solderpot, 3 Seconds	$\pm (0.1\% + R05)$
Insulation resistance:	DC 100V, 1 Min	Over 1000M ohms
Vibration:	10 - 50 Hz, 1 Min, 20G X-Y-Z 1 Hour	$\pm (0.5\% + R05)$
Insulation resistance:	DC 100V, 1 Min	Over 1000M ohms

Power Resistors

type MPR series

This small size non-inductive, high power resistor is an innovative and significant first for Meggitt Electronics. Occupying a standard TO220 package it is ideally suited to positions where high power dissipation and , small size and close tolerance are key design requirements. The film provides excellent frequency characteristics and resistance tolerance down to $\pm 1\%$

> sales action desk (01793) 611666 sales fax line (01793) 611777

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Environmental cont.

Power Derating Curve

With a 5.8°C/W heatsink or better at a 25°C ambient temperature, 20 watts can be dissipated. A larger heatsink will run the resistor at a lower temperature.



Load Life in High Temperature & Humidity



Power Resistors

Meggitt CGS

95

type MPR series

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 work-stations and other brown and white goods. The MPR is available in a wide range of values.



How To Order

Dimensions

MPR	20	С	1R0	J
Common Part	Wattage Rating at 25°C with Heatsink	Temp Coefficient Of Resistance	Resistance Value	Tolerance
MPR - High Power Film Resistor	20 - 20 Watts	A = 100000007 (2)	1.0 ohm (1000 mille ohms) 1R0 1K ohm (1000 ohms) 1K0 10K ohm (10000 ohms) 10K	

Please Request Full Data Sheet F0480

