

# **High Power Resistors**



# Type MPC Series



A range of non inductive thick film power resistors complementing the T0220 packaged MPR series (20 Watt heat sink styles), being vertically mounted and suitable to dissipate power from 3 Watts up to 10 Watts. Available in values from 1R0 to 200K ohms they are the idea solution for small snubber circuits, the output side of high speed pulse generators and low inductive resistor requirements in switch mode power supplies.

#### **Key Features**

- High Power Density
- Easy to Mount
- Non Inductive
- Stable at 100ppm/°C
- Temperature Range -55°C to +125°C
- High Power up to 10 Watts
- Voltage Proof 5000V dc
- Non Flammable

## Characteristics - Electrical

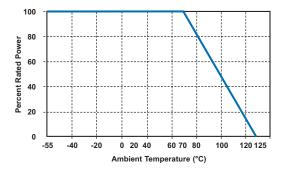
**Type MPC Series** 

Resistance Values:	R10 to 200K
Resistance Tolerance:	1%, 5%
Temp. Coefficient of Resistance:	±100ppm/°C
Rated Power @ 70°C:	3 to 10 Watts nominal
Equivalent Parallel Capacitance (100 MHz):	1.0pf
Maximum Operating Voltage:	300V AC
Withstanding Voltage:	5000V
Operating Temperature Range:	-55°C to +125°C
Overload Current:	20 x rated current up to 8 ms ( ΔR ± 0.5%)

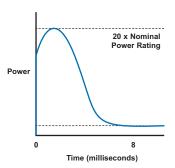
# Characteristics - Mechanical

	Test Condition MILR83401	Specification		
Life (Rated Power):	40°C, rated power, 90 min ON 30 min OFF, 1000 hrs.	$\Delta R\pm$ ( 1.0% + 0.05 ohm)		
Life (Moisture Load):	60°C, 90 - 95% RH, rated power 90 min ON 30 min OFF, 1000 hrs.	$\Delta R\pm$ ( 1.0% + 0.05 ohm)		
Temperature Cycling:	Room temp > -55°C 30 min > RT 10 min ± 120°C 30 min > RT 10 min 5 cycles	ΔR± ( 0.25% + 0.05 ohm)		
Flammability:	UL94V-O rated			
Soldering Heat:	350°C Solderpot, 3 secs.	ΔR± ( 0.25% + 0.05 ohm)		
Insulation Resistance:	DC 100V, 1 min	Over 1000M ohm		
Vibration:	10 - 50 Hz, 1 min, 20G, X-Y-Z 1 hr.	$\Delta R\pm (0.25\% + 0.05 \text{ ohm})$		

### **Power Derating Curve**



#### **Overload Characteristics**

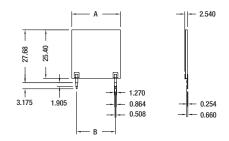






## **Type MPC Series**

#### **Dimensions**



Size	MPC3	MPC5	MPC7	MPC10
Α	10.16	12.7	19.05	25.4
В	5.08	5.08	12.70	20.32

#### **Product Marking**

Value (Ohms	s) 1	2	5	10	20	50	100	200	500	1K	2K	5K	10K	20K	50K	100K	200K
Code	1R0	2R0	5R0	100	200	500	101	201	501	102	202	502	103	203	503	104	204



NB: Due to the wide range of available values/tolerances etc.some variants may not be tooled for production. It is possible that a small tooling charge may be levied dependant on order quantity or potential. Please check.

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

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

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

 M8340104M4701GCD03
 M8340105K3300GGD03
 M8340105K3922FGD03
 M8340106K1002JCD03
 M8340107K1002GGD03

 M8340107K1152FGD03
 M8340107K2701GCD03
 M8340107M2002GCD03
 M8340108K1000GCD03
 M8340108K5601GCD03

 M8340108M2203GCD03
 M8340109K1002JCD03
 M8340109K1003GCD03
 M8340109K5101GGD03
 FHV05010M0FKRB
 MP850-3.00-1%

 hte24511kf
 SM-SP093
 ARC3.11 2M J A
 M8340105K1001GCD03
 M8340105K3002GGD03
 M8340105M1002JGD03

 M8340107K2001GGD03
 M8340107K4701GGD03
 M8340107K5101GGD03
 M8340107K5600GGD03
 M8340108K4990FGD03

 M8340108K49R9FGD03
 M8340108M10R0GGD03
 M8340109K2202GGD03
 M8340109K5601GCD03
 MOX-GRD-001
 MOX-SP020

 MOX-SP025E
 M8340107K2001GCD03
 M8340102M4701GBD04
 M8340102K1002GBD04
 M8340102K1002GAD04

 M8340109K2002GGD03
 M8340108K22R0GGD03
 M8340107M5100GGD03
 OE1305
 WMHP100-R22J
 M8340104K39R2FCD03

 M8340106MA012JHD03
 M8340107K1003GGD03
 MS126-9.09K-0.1%
 MS126-249K-0.1%
 MS-221-82R5
 MOX-750231004DE