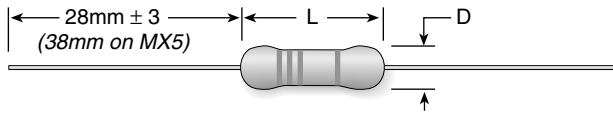


# MX Series

**Metal Oxide Resistors**  
**5% Tolerance**  
**RoHS Compliant**



This product has been  
**DISCONTINUED**



Series	Wattage	Ohms	Dimensions (in. / mm)		Lead Dia. Voltage (mm)	
			Max. Length	Max. Diam.		
MX1	1	0.30-50K	0.394 / 10.0	0.158 / 4.0	350	0.70
MX2	2	0.30-50K	0.472 / 12.0	0.197 / 5.0	350	0.70
MX3	3	5-100K	0.630 / 16.0	0.217 / 5.5	350	0.80
MX5	5	5-150K	0.985 / 25.0	0.315 / 8.0	500	0.80

## SPECIFICATIONS

General Specifications	MX1	MX2	MX3	MX5
Power Rating @ 70°C	1W	2W	3W	5W
Power Derating	Linearly from 100% @ +70°C to 0% @ +155°C			
Temperature Coefficient	±350 ppm / °C			
Operating Temperature	-55°C to +155°C			
Max. Working Voltage	350	350	350	500
Max. Overload Voltage	600	600	600	800
Dielectric Withstanding Voltage	350	350	500	500
Resistance Range (Ω)	0.3-50KΩ	0.3-50KΩ	0.3-50KΩ	5.0Ω-150KΩ

### Dimensions (in./mm)

Dimension	MX1	MX2	MX3	MX5
L (max.)	0.394/10.0	0.472/12.0	0.630/16.0	0.984/25.0
D (max.)	0.157/4.0	0.197/5.0	0.217/5.5	0.315/8.0
Lead dia.	+0.0008/0.02 -0.002/0.05	0.027/0.7	0.027/0.7	0.031/0.8

Note: Extended resistance range to 1MΩ available by special request.

The MX Series Metal Oxide Resistors provide stable performance at low cost across a wide resistance range. They can be used as a substitute for wirewounds when short time overloads are limited to 2.5 times rated power, and when higher TCRs can be tolerated.

## FEATURES

- Economical
- High power density
- Flame retardant coating
- Wide resistance range
- Quantity per reel:
  - MX1 = 2500
  - MX2 = 2500
  - MX3 = 1000
  - MX5 = 500 (bulk only)

## SPECIFICATIONS

- Material**
- Coating:** Flame retardant silicone
- Core:** High purity ceramic.
- Terminals:** Solder-coated axial lead.
- Electrical**
- Max overload voltage:**
  - MX1, MX2 and MX3: 600 V
  - MX5: 800V
- Derating:** Linearly from 100% @ +70°C to 0% @ 155°C
- Temperature coefficient:** ±350 ppm/°C
- Dielectric withstanding voltage:**
  - MX1 and MX2: 350V
  - MX3 and MX5: 500V

## ORDERING INFORMATION

RoHS Compliant

**MX1J10RE-R52**

<b>Series</b>	<b>Tolerance</b>	<b>Ohms</b>	<b>Packaging Code</b>
MX1 = 1W MX2 = 2W MX3 = 3W MX5 = 5W	J = 5% K = 10%	< 1.0 ohm = Rxx 1.0 ohm = 1R0 10 ohm = 10R 100 ohm = 100 1000 ohm = 1K0 10,000 ohm = 10K 100,000 ohm = 100K	R58 = 58mm axial Tape & Reel R52 = 52mm axial Tape & Reel A = Tape & Ammo Pac

## STANDARD PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	Part No. Prefix Suffix	Wattage				Ohmic value	Part No. Prefix Suffix	Wattage				Ohmic value	Part No. Prefix Suffix	Wattage									
		1.0	2.0	3.0	5.0			1.0	2.0	3.0	5.0			1.0	2.0	3.0	5.0						
0.39	R39	✓	✓			10.0	10R	✓	✓	✓	✓	270	270	✓	✓	✓	✓	4,700	4K7	✓	✓	✓	✓
0.47	R47	✓	✓			15.0	15R	✓	✓	✓	✓	300	300	✓	✓	✓	✓	5,600	5K6	✓	✓	✓	✓
0.56	R56	✓	✓			20.0	20R	✓	✓	✓	✓	360	360	✓	✓	✓	✓	6,800	6K8	✓	✓	✓	✓
0.75	R75	✓	✓			22.0	22R	✓	✓	✓	✓	470	470	✓	✓	✓	✓	7,500	7K5	✓	✓	✓	✓
1.0	1R0	✓	✓			27.0	27R	✓	✓	✓	✓	560	560	✓	✓	✓	✓	8,200	8K2	✓	✓	✓	✓
1.5	1R5	✓	✓			30.0	30R	✓	✓	✓	✓	680	680	✓	✓	✓	✓	10,000	10K	✓	✓	✓	✓
2.0	2R0	✓	✓			36.0	36R	✓	✓	✓	✓	750	750	✓	✓	✓	✓	15,000	15K	✓	✓	✓	✓
2.2	2R2	✓	✓			47.0	47R	✓	✓	✓	✓	820	820	✓	✓	✓	✓	20,000	20K	✓	✓	✓	✓
2.7	2R7	✓	✓			56.0	56R	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	✓	22,000	22K	✓	✓	✓	✓
3.0	3R0	✓	✓			68.0	68R	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓	27,000	27K	✓	✓	✓	✓
3.6	3R6	✓	✓			75.0	75R	✓	✓	✓	✓	2,000	2K0	✓	✓	✓	✓	30,000	30K	✓	✓	✓	✓
4.7	4R7	✓	✓			82.0	82R	✓	✓	✓	✓	2,200	2K0	✓	✓	✓	✓	36,000	36K	✓	✓	✓	✓
5.6	5R6	✓	✓	✓	✓	100	100	✓	✓	✓	✓	2,700	2K7	✓	✓	✓	✓	47,000	47K	✓	✓	✓	✓
6.8	6R8	✓	✓	✓	✓	150	150	✓	✓	✓	✓	3,000	3K0	✓	✓	✓	✓	56,000	56K	✓	✓	✓	✓
7.5	7R5	✓	✓	✓	✓	200	200	✓	✓	✓	✓	3,600	3K6	✓	✓	✓	✓	68,000	68K	✓	✓	✓	✓
8.2	8R2	✓	✓	✓	✓	220	220	✓	✓	✓	✓	3,900	3K9	✓	✓	✓	✓	82,000	82K	✓	✓	✓	✓
																		100,000	100K	✓	✓	✓	✓