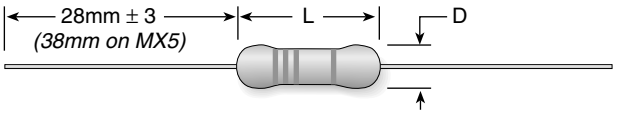
MX Series

This product has been DISCONTINUED

RoHS Compliant

Metal Oxide Resistors
5% Tolerance
RoHS Compliant



Series	Wattage	Ohms	Dimensions (in. / *mm*) Max. Length	Max. Diam.	Lead Dia. Voltage	(*mm*)
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

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

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*)				
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*	0.031/*0.8*

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

ORDERING INFORMATION

RoHS Compliant

M X 1 J 1 0 R E - R 5 2

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

STANDARD PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage 1.0 MX1J	2.0 MX2J	3.0 MX3J	5.0 MX5J
0.39	R39	✔	✔		
0.47	R47	✔	✔		
0.56	R56	✔	✔		
0.75	R75	✔	✔		
1.0	1R0	✔	✔		
1.5	1R5	✔	✔		
2.0	2R0	✔	✔		
2.2	2R2	✔	✔		
2.7	2R7	✔	✔		
3.0	3R0	✔	✔		
3.6	3R6	✔	✔		
4.7	4R7	✔	✔		
5.6	5R6	✔	✔	✔	✔
6.8	6R8	✔	✔	✔	✔
7.5	7R5	✔	✔	✔	✔
8.2	8R2	✔	✔	✔	✔
10.0	10R	✔	✔	✔	✔
15.0	15R	✔	✔	✔	✔
20.0	20R	✔	✔	✔	✔
22.0	22R	✔	✔	✔	✔
27.0	27R	✔	✔	✔	✔
30.0	30R	✔	✔	✔	✔
36.0	36R	✔	✔	✔	✔
47.0	47R	✔	✔	✔	✔
56.0	56R	✔	✔	✔	✔
68.0	68R	✔	✔	✔	✔
75.0	75R	✔	✔	✔	✔
82.0	82R	✔	✔	✔	✔
100	100	✔	✔	✔	✔
150	150	✔	✔	✔	✔
200	200	✔	✔	✔	✔
220	220	✔	✔	✔	✔
270	270	✔	✔	✔	✔
300	300	✔	✔	✔	✔
360	360	✔	✔	✔	✔
470	470	✔	✔	✔	✔
560	560	✔	✔	✔	✔
680	680	✔	✔	✔	✔
750	750	✔	✔	✔	✔
820	820	✔	✔	✔	✔
1,000	1K0	✔	✔	✔	✔
1,500	1K5	✔	✔	✔	✔
2,000	2K0	✔	✔	✔	✔
2,200	2K0	✔	✔	✔	✔
2,700	2K7	✔	✔	✔	✔
3,000	3K0	✔	✔	✔	✔
3,600	3K6	✔	✔	✔	✔
3,900	3K9	✔	✔	✔	✔
4,700	4K7	✔	✔	✔	✔
5,600	5K6	✔	✔	✔	✔
6,800	6K8	✔	✔	✔	✔
7,500	7K5	✔	✔	✔	✔
8,200	8K2	✔	✔	✔	✔
10,000	10K	✔	✔	✔	✔
15,000	15K	✔	✔	✔	✔
20,000	20K	✔	✔	✔	✔
22,000	22K	✔	✔	✔	✔
27,000	27K	✔	✔	✔	✔
30,000	30K	✔	✔	✔	✔
36,000	36K	✔	✔	✔	✔
47,000	47K	✔	✔	✔	✔
56,000	56K			✔	✔
68,000	68K			✔	✔
82,000	82K			✔	✔
100,000	100K			✔	✔

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