



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

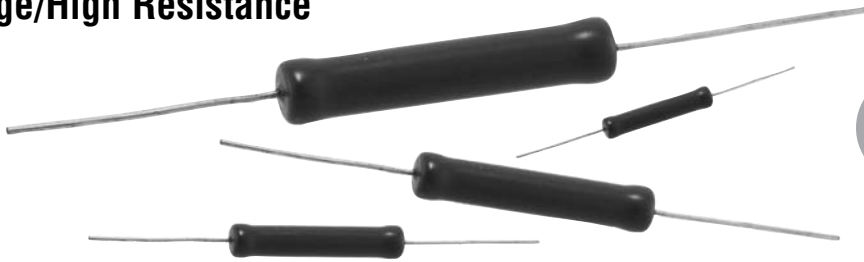
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Maxi-Mox

Precision Thick Film Axial Terminal High Voltage/High Resistance



Maxi-Mox resistors are also versatile. Suitable for industrial applications requiring still more power for high voltage switching, industrial control, and high voltage current limiting.

FEATURES

- Wide resistance ranges
- Voltage rating to 50KV
- Power rating to 12.5 watts
- Silicone or epoxy coating
- Non-inductive available

APPLICATIONS

- HV power supplies
- Power distribution
- Medical instrumentation
- Avionics

SERIES SPECIFICATIONS

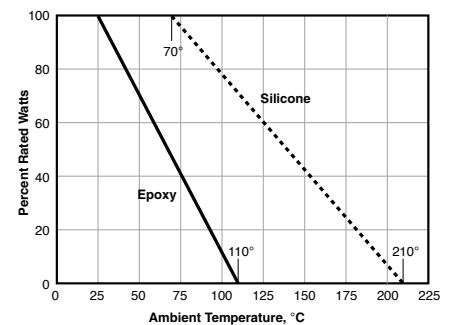
Ohmite Series	Resistance Range (Ω)	Power @70°C	Voltage Rating	Available Tolerances*	Capacitance (pf)
• High-temperature (silicone coated)					
MOX-1-12	250 Ω to 300,000M	2.5W	10.0KV	1% to 20%	0.75
MOX-2-12	500 Ω to 700,000M	5.0W	20.0KV	1% to 20%	0.60
MOX-3-12	750 Ω to 1,000,000M	7.5W	30.0KV	1% to 20%	0.50
MOX-4-12	1K to 1,000,000M	10.0W	40.0KV	1% to 20%	0.40
MOX-5-12	1.25K to 1,000,000M	12.5W	50.0KV	1% to 20%	0.30
• Standard (epoxy coated) @25°C					
MOX-1-13	250 Ω to 300,000M	2.0W	10.0KV	0.1% to 20%	0.75
MOX-2-13	500 Ω to 700,000M	3.0W	20.0KV	0.1% to 20%	0.60
MOX-3-13	750 Ω to 1,000,000M	4.0W	30.0KV	0.1% to 20%	0.50
MOX-4-13	1K to 1,000,000M	5.0W	40.0KV	0.1% to 20%	0.40
MOX-5-13	1.25K to 1,000,000M	6.0W	50.0KV	0.1% to 20%	0.30

*Some tolerances are not available over the entire resistance range.

CHARACTERISTICS

Core	Alumina
Resistor	Thick Film
Terminal	RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
Resistance Range	250 Ω to 1 Teraohm
Power Rating	2.0W to 12.5W
Voltage Rating	10KV to 50KV
Tolerance	0.5% to 20%; not all tolerances available in all values
Operating Temperature	-55°C to +210°C
Temperature Coefficient	25ppm/°C 0° to 85°C available

DERATING



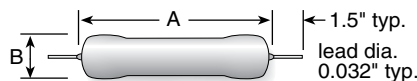
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Maxi-Mox

Precision Thick Film Axial Terminal High Voltage/High Resistance

DIMENSIONS

Ohmite Series	Power	A max. (in/mm)	B max. (in/mm)
• High-temperature (silicone coated)			
MOX-1-12	2.5W	1.120" / 28.45	0.310" / 7.87
MOX-2-12	5.0W	2.120" / 53.85	0.310" / 7.87
MOX-3-12	7.5W	3.120" / 79.24	0.310" / 7.87
MOX-4-12	10.0W	4.120" / 104.65	0.310" / 7.87
MOX-5-12	12.5W	5.120" / 130.05	0.310" / 7.87
• Standard (epoxy coated)			
MOX-1-13	2.0W	1.140" / 28.96	0.345" / 8.76
MOX-2-13	3.0W	2.140" / 54.36	0.345" / 8.76
MOX-3-13	4.0W	3.140" / 79.76	0.345" / 8.76
MOX-4-13	5.0W	4.140" / 105.16	0.345" / 8.76
MOX-5-13	6.0W	5.140" / 130.56	0.345" / 8.76



PERFORMANCE DATA

Characteristic	Test Method	Specification
Humidity	MIL-STD-202, Method 103B, Condition B	±0.25%
Dielectric Withstanding Voltage	MIL-STD-202, Method 301, 750V	±0.25%
Insulation Resistance	MIL-STD-202, Method 302, Condition A or B	>10,000 M or greater dry
Thermal Shock	MIL-STD-202, Method 107G, Condition B, B-1, or F	±0.20%
Load Life	MIL-STD-202, Method 108A, Condition D	±1.0%
Resistance to Solvents	MIL-STD-202, Method 215G	Acceptable for High Reliability Series only
Terminal Strength	MIL-STD-202, Method 211A, Condition A or B	±0.25%
Shock (Specified Pulse)	MIL-STD-202, Method 213B, Condition I	±0.25%
Vibration High Frequency	MIL-STD-202, Method 204D, Condition D	±0.20%
Power Conditioning	MIL-R-49462A, Par 4.8	±0.50%
Solderability	MIL-STD-202, Method 208F	>95% Coverage

TEMP. AND VOLTAGE COEFFICIENTS OF RESISTANCE

Resistor Series	Temp. Coeff. of Resistance*			Voltage Coeff. of Resistance**	
	25 PPM/°C	50 PPM/°C	100 PPM/°C	< 2PPM/Volt	< 5PPM/Volt
MOX-1	1K-99M	100M-450M	451M-30,000M	250Ω-1,000M	1,001M-100,000M
MOX-2	1K-199M	200M-1,000M	1,001M-60,000M	500Ω-2,600M	2,601M-200,000M
MOX-3	1K-299M	300M-1,500M	1,501M-90,000M	750Ω-4,000M	4,001M-300,000M
MOX-4	1K-399M	400M-2,000M	2,001M-120,000M	1K-5,300M	5,301M-400,000M
MOX-5	1K-499M	500M-2,500M	2,501M-150,000M	1.25K-6,700M	6,701M-500,000M

*TCR of 25ppm for temperature range of 0°C-85°C. TCR of 50ppm and 100ppm for -55°C to 125°C. Consult factory for TCR values operating higher than 125°C

**For tighter VCs please contact Ohmite.

ORDERING INFORMATION

		Coating			
		2 = Black silicone			
		3 = Epoxy			
		6 = No coating		RoHS Compliant	
Non-inductive optional					
MOX	-1	N	-13	1006	FE
Maxi Mox Series	Style 1,2,3,4,5,8	Terminal 1 = 0.032"	Ohms First 3 digits are significant; 4th digit is multiplier (# of zeroes to follow). Examples: 1000 = 100Ω, 1503 = 150,000Ω, 5005 = 50,000,000Ω	Tolerance D = 0.5%, F = 1%, G = 2%, J = 5%, K = 10%, M = 15%, P = 20%	

Not all tolerances available in all values.