The Mini-Mox resistor is very versatile, covering a wide resistance range as well as a wide range of operating voltages. Provided with tolerances down to 0.1%, the Mini-Mox resistor works well in precision circuits.

SPECIFICATIONS

Material

Resistor: Metal Oxide Coating: Silicone Core: Alumina

Terminals: Solder-coated axial

lead

Electrical Resistance Range: 250Ω to 1 Teraohm

Power Rating: 0.25W to 1.5W Voltage Rating: 500V to 7.5KV Tolerance: 0.1% to 20% Operating Temperature: -55°C to +220°C

Temperature Coefficient: 25ppm/°C 0° to 85°C available

FEATURES

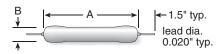
- Wide resistance ranges
- · Silicone or epoxy coating
- Metal oxide resistive element

APPLICATIONS

- Avionics
- Medical electronics
- · High gain feedback applications
- Current pulse limiters
- · Vacuum and space application

Mini-Mox Resistors

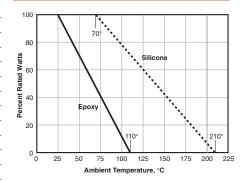
Precision Thick Film Axial Lead High Voltage/High Resistance Resistors



Ohmite Series	Resistance Range (Ohms	Power @70°C	Voltage Rating	Available Tolerances*	A ± 0.015" (in/ <i>mm</i>)	B max. (in/ <i>mm</i>)		
High-temperature (silicone coated)								
MOX-400-22	500Ω to 300,000M	0.35W	2,500V	1% to 20%	0.520" / 13.21	0.140" / <i>3.56</i>		
MOX-750-22	750Ω to $600,000M$	0.70W	5,000V	1% to 20%	0.820" / <i>20.83</i>	0.140" / <i>3.56</i>		
MOX1125-22	1K to 1,000,000M	1.40W	7,500V	1% to 20%	1.210" / <i>30.73</i>	0.140" / <i>3.56</i>		
*Some tolerances are not available over the entire resistance range.								
• Standard (epo	xy coated)	@25°C						
MOX-400-23	500Ω to 300,000M	0.75W	2,500V	0.25% to 20%	0.580" / <i>14.78</i>	0.165" / <i>4.19</i>		
MOX-750-23	1K to 600,000M	1.00W	5,000V	0.25% to 20%	0.880" / <i>22.35</i>	0.165" / <i>4.19</i>		
MOX1125-23	1K to 1,000,000M	1.50W	7,500V	0.25% to 20%	1.270" / <i>32.26</i>	0.165" / <i>4.19</i>		

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	>10,000M 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	±2.0%						
Resistance to Solvents	MIL-STD-202, Method 215G Acceptable for t	the Standard 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	±.020%						
Power Conditioning	MIL-R-49462A, Par 4.8	±0.50%						
Solderability	MIL-STD-202, Method 208F	>95% Coverage						

DERATING



STANDARD TEMPERATURE/VOLTAGE COEFFICIENTS OF RESISTANCE

Resistor Series	Temp. Coeff. of Resistance* 25 PPM/°C 50 PPM/°C 100 PPM/°C		Voltage Coeff < 2PPM/Volt	f. of Resistance** < 5PPM/Volt	
MOX-400	1K-1,500M	1K-450M	451M-30,000M	1K-1,000M	1,001M-100,000M
MOX-750	1K-1,500M	1K-900M	901M-70,000M	1K-2,000M	2,001M-100,000M
MOX1125	1K-1,500M	1K-1,350M	1,351M-100,000M	1K-3,000M	3,001M-100,000M

^{*}Epoxy: -55°C to 110°C; High Temp. Silicone: -55°C to 210°C

^{**}For tighter VCs please contact factory.

