Mini-Mox

Precision Thick Film Axial Terminal High Voltage/High Resistance





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

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 0.5%, the Mini-Mox resistor works well in precision circuits.

SERIES SPECIFICATIONS

Ohmite Series	Resistance Range (Ohms)	Power	Voltage Rating	Available Tolerances*	Capacitance (pf)	*Sor
 High-temperature 	e (silicone coated)	@70°C				are
MOX-400-22	500Ω to 300,000M	0.35W	2,500V	1% to 20%	1.00	over resis
MOX-750-22	750Ω to 600,000M	0.70W	5,000V	1% to 20%	0.75	
MOX1125-22	1K to 1,000,000M	1.40W	7,500V	1% to 20%	0.25	
• Standard (epoxy	coated)	@25°C				
MOX-400-23	500Ω to 300,000M	0.75W	2,500V	0.5% to 20%	1.00	
MOX-750-23	1K to 600,000M	1.00W	5,000V	0.5% to 20%	0.75	
MOX1125-23	1K to 1,000,000M	1.50W	7,500V	0.5% to 20%	0.25	

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CHARACTERISTICS

Resistor	Metal Oxide	Performance Data		
Coating	Silicone or Epoxy	Characteristic	Test Method	Specification
Core	Alumina	Humidity	MIL-STD-202, Method 103B,	±0.25%
Terminals	Solder-coated axial. RoHS		Condition B	
	solder composition is 96% Sn, 3.5% Ag, 0.5% Cu	Dielectric Withstanding Voltage	MIL-STD-202, Method 301, 750V	±0.25%
Resistance Range	500Ω to 1 Teraohm	Insulation Resistance	MIL-STD-202, Method 302,	>10,000M or greater
Power Rating	0.35W to 1.5W		Condition A or B	dry
Voltage Rating	2500V to 7.5KV	Thermal Shock	MIL-STD-202, Method 107G, Condition B, B-1, or F	±0.20%
Tolerance	0.5% to 20%; not all toler- ances available in all values	Load Life		±2.0%
Operating	-55°C to +210°C			• • • • • •
Temperature		Resistance to Solvents	,	Acceptable for the Standard Series Only
Temp. Coefficient	25ppm/°C 0° to 85°C available	Terminal Strength		±0.25%
		Shock (Specified Pulse)		±0.25%

Vibration, High MIL-STD-202, Method 204D,

Condition D

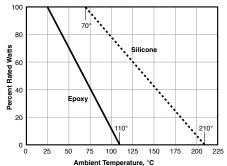
MIL-R-49462A, Par 4.8

MIL-STD-202, Method 208F

Frequency

Solderability

Power Conditioning



(continued)

±.020%

±0.50%

>95% Coverage

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STANDARD TEMP./VOLTAGE COEFFICIENTS OF RESISTANCE

	Temp. Coeff. of Resistance		Voltage Coeff. of Resistance**		
Resistor Series	25 PPM/°C	50 PPM/°C	100 PPM/°C	<pre>< 2PPM/Volt</pre>	< 5PPM/Volt
MOX-400	1K-99M	100M-450M	451M-30,000M	1K-1,000M	1,001M-100,000M
MOX-750	1K-199M	200M-900M	901M-70,000M	1K-2,000M	2,001M-100,000M
MOX1125	1K-299M	300M-1,350M	1,351M-100,000M	1K-3,000M	3,001M-100,000M
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*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.

DIMENSIONS

Series Power A max. B max. ←1.5" typ. • High-temperature (silicone coated) @70°C lead dia. MOX-400-22 0.35W 0.510" / 12.95 0.140" / 3.56 0.020" typ. MOX-750-22 0.70W 0.820" / 20.83 0.140" / 3.56 MOX1125-22 1.40W 1.210" / 30.73 0.140" / 3.56 • Standard (epoxy coated) @25°C MOX-400-23 0.75W 0.580" / 14.78 0.165" / 4.19 MOX-750-23 1.00W 0.880" / 22.35 0.165" / 4.19 MOX1125-23 1.50W 1.270" / 32.26 0.165" / 4.19

HOW TO ORDER

мо	Style Coating 200, 300, 400, 2 = Black silic 750, 1125 3 = Epoxy 6 = No coatin 1 V 1 1 2 2 1	g E = RoHS Compliant I
Mini Mox Series	X 1 1 2 5 2 3 1 Terminal 0 = MOX-200 or 300; MOX-200 Z or 300 Z = 50ppm 2 = 0.020" 7 = 0.032"	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Not all tolerances available in all values.



(in./mm)



