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.

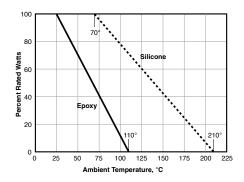
SERIES SPECIFICATIONS

Ohmite Series	Resistance Range (Ohms)	Power	Voltage Rating	Available Tolerances*	Capacitance (pf)	*Some
 High-temperatur 	e (silicone coated)	@70°C				are no
MOX-400-22	500Ω to 300,000M	0.35W	2,500V	1% to 20%	1.00	over th resista
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 solder composition is 96% Sn, 3.5% Ag, 0.5% Cu		Condition B		
		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	,,	±0.20%	
Tolerance	0.5% to 20%; not all toler- ances available in all values	Load Life	, , ,	±2.0%	
Operating	-55°C to +220°C		Condition D		
Temperature		Resistance to	MIL-STD-202, Method 215G	Acceptable for the	
Temp. Coefficient	25ppm/°C 0° to 85°C available	Solvents		Standard Series Only	
Derating		Terminal Strength	MIL-STD-202, Method 211A, Condition A or B	±0.25%	
Grating		Shock (Specified	MIL-STD-202, Method 213B,	±0.25%	



(continued)

±.020%

±0.50%

>95% Coverage

Condition I

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

Condition D

MIL-R-49462A, Par 4.8

MIL-STD-202, Method 208F

Pulse)

Frequency

Solderability

Power Conditioning



Mini-Mox

(in./mm)

Precision Thick Film Axial Terminal High Voltage/High Resistance

STANDARD TEMP./VOLTAGE COEFFICIENTS OF RESISTANCE

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

*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.

DIMENSIONS

$\begin{array}{c c} B \\ \downarrow \\ \hline \end{array} & \hline \\ \hline \end{array} & A \\ \hline \end{array} & \hline \\ \hline$	Series • High-temperature (silicon	Power e coated)	A max. @70°C	B max.
	MOX-400-22	0.35W	0.510" / 12.95	0.140" / 3.56
*	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 silico 750, 1125 3 = Epoxy 6 = No coating 1 X 1 1 2 5 X 1 1 2 5	E = RoHS Compliant I
Mini Mox Series	Terminal O 0 = MOX-200 or 300; MOX-200 Z or 300 Z = 50ppm 2 = 0.020" r 7 = 0.032" t	$\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.

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 hte24511kf
 SM104RD-0015E
 SM-SP093
 MOX-GRD-001
 MOX-SP020
 MOX-SP025E
 OE1305

 SIL09E122J
 MP2060-150-1%
 SIL09E472J
 SIL10E103J
 SIL09E102J
 SIL09E103J
 SIL09E104J
 SIL10M183G
 SIL12M222J
 HH120150KFZ

 3811-1T0FI
 MS126-9.09K-0.1%
 MS310-455K-1%
 3811-1T0KI
 3811-100GFI
 SM106034006F1E
 MV228-2.00-1%
 MS310-100K-1%

 MS126-249K-0.1%
 MS-221-82R5
 MOX-750231004DE
 MOX-4-127505J
 SM102034504FE
 MHR0317SA107F70
 MHR0317SA108F70

 MHR0844SA506F70
 MHR0317SA506F70
 MHR0844SA107F70
 MHR0317SA507F70
 MHR0844SA507F70
 MHR0844SA106F70

 MHR0844SA108G70
 MP821-7.5-1%
 MHR0422SA106F70
 MHR0422SA108F70
 MHR0422SA107F70
 MHR0424SA106F70

 MHR0424SA506F70
 MHR0424SA107F70
 MHR0422SA507F70
 MHR0424SA106F70