# Mini-Mox



## 0.25 Watt and 0.5 Watt Precision Thick Film Axial Terminal High Voltage/High Resistance

### **FEATURES**

- RoHS compliant
- Wide resistance ranges
- Epoxy coating
- Metal oxide resistive element

### **APPLICATIONS**

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

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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 1%, the Mini-Mox resistor works well in precision circuits.

### SERIES SPECIFICATIONS

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Voltage Rating	Available Tolerances*
MOX200	500K to 1,500M	0.25W	500V	0.1% to 20%
MOX300	500K to 2,500M	0.50W	1,000V	0.1% to 20%

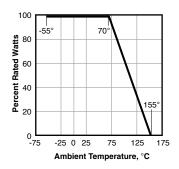
 $<sup>\</sup>ensuremath{^{\star}}\xspace Some tolerances are not available over the entire resistance range.$ 

### CHARACTERISTICS

Resistor	Metal Oxide			
Coating	Ероху			
Core	Alumina			
Terminals	Solder-coated axial. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu			
Resistance Range	500K to 1,500M $\Omega$			
Power Rating	0.25W to 0.5W			
Voltage Rating	500V to 1,000V			
Tolerance	0.1% to 20%			
	Maximum Value Available Tolerance MOX200 MOX300			
	0.10%       10ΜΩ       10ΜΩ         0.25%       10ΜΩ       10ΜΩ         0.50%       10ΜΩ       10ΜΩ         1%-20%       1500ΜΩ       2500ΜΩ			
Operating Temperature	-55°C to +155°C			
Max. Overload Voltage	1,000V (MOX200); 1,500V (MOX300)			
Max. Pulse Voltage	1,500V (MOX200); 3,000V (MOX300)			
Temp. Coeff. of	Series 100 PPM/°C 200 PPM/°C 300 PPM/°C			
Resistance	MOX200 500K-100MΩ 101M-1000MΩ 1001M-1500MΩ MOX300 500K-100MΩ 101M-1000MΩ 1001M-2500MΩ			

Characteristic	Test Method	Specification
Short time overload	Rated Power x2.5, 5 sec.	±0.5% max.
Resistance to soldering heat	260°C ±5°C, 10 ±1 sec.	±0.5% max.
Temperature cycling	-55°C/+155°C, 5 cycles	±0.5% max.
Withstanding voltage	500 VDC, 60 ±10 sec.	±0.5% max.
Insulation resistance	500 VDC	10,000MΩ or more
Moisture resistance	40°C ±2°C, 90-95%RH, 1000 hr.	±1.5% max.
Load life	70°C ±3°C, 1000 hr.	±2% max.

### **Derating**



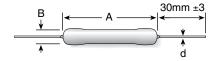
(continued)

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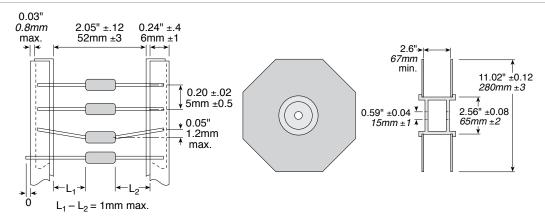
#### DIMENSIONS

(mm)



Series	Power Rating	A ±0.5mm (in/mm)	B ±0.5mm (in/mm)	a ±0.05mm (in/mm)	
MOX200	0.25W	0.26" / 6.5	0.09" / 2.2	0.024" / 0.6	
MOX300	0.50W	0. 35" / 9	0.13" / 3.3	0.025" / 0.65	

### Tape and reel



### HOW TO ORDER

RoHS Tape and reel pliant 2500 qty./reel std.

MOX 2 0 0 0 0 1 0 0 3 F R R

| Mini Mox Series | MOX-20000 or | MOX-30000 | MOX-300000 | MOX-30000 | MOX-300000 | MOX-30000 | MOX-30000 | MOX-300000 | MOX-300000 | MOX-300000 10R2 = 10.2 ohms 1000 = 100 ohms 1503 = 150,000 ohms

