# 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

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	е
Mini-Mox resistor works well in precision	Ì
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%

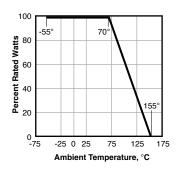
<sup>\*</sup>Some tolerances are not available over the entire resistance range.

#### 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 1,500MΩ			
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%       10MΩ       10MΩ         0.25%       10MΩ       10MΩ         0.50%       10MΩ       10MΩ         1%-20%       1500MΩ       2500MΩ			
Operating Temperature	-55°C to +155°C			
Max. Overload Voltage	1,000V (MOX200); 1,500V (MOX300)			
Max. Pulse Voltage	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Temp. Coeff. of	Series 100 PPM/°C 200 PPM/°C 300 PPM/°C			
Resistance	MOX200 500K-100M $\Omega$ 101M-1000M $\Omega$ 1001M-1500M $\Omega$ MOX300 500K-100M $\Omega$ 101M-1000M $\Omega$ 1001M-2500M $\Omega$			

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 Insulation resistance	500 VDC, 60 ±10 sec.	±0.5% max.	
	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**

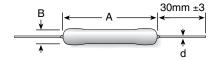




# 0.25 Watt and 0.5 Watt **Precision Thick Film Axial Terminal** High Voltage/High Resistance

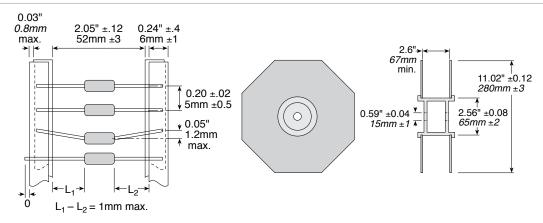
#### DIMENSIONS

(mm)



Series	Power Rating	A ±0.5mm (in/mm)	B ±0.5mm (in/mm)	d ±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
Compliant 2500 qty./reel std.

10R2 = 10.2 ohms 1000 = 100 ohms 1503 = 150,000 ohms

