## 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

#### APPLIC ATIONS

- 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 Mini-Mox resistor works well in precision circuits.

#### SPECIFICATIONS

Material

Resistor: Metal Oxide Coating: Epoxy Core: Alumina

Terminals: Solder-coated axial

Electrical

Resistance Range: 100K to 1,500MΩ

Power Rating: 0.25W to 0.5W Voltage Rating: 500V to 1,000V

Tolerance: 0.1% to 20%
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)

# $\begin{array}{c|c} B \\ \hline \downarrow \\ \hline \end{array} \begin{array}{c} A \\ \hline \end{array} \begin{array}{c} 30\text{mm} \pm 3 \\ \hline \end{array}$

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Voltage Rating	Available Tolerances*	A ±0.5mm (in/ <i>mm</i> )	B ±0.5mm (in/ <i>mm</i> )	d ±0.05mm (in/ <i>mm</i> )
MOX200	100K to 1,500M	0.25W	500V	0.1% to 20%	0.26" / <i>6.5</i>	0.09" / <i>2.2</i>	0.02" / <i>0.6</i>
MOX300	100K to 2,500M	0.50W	1,000V	0.1% to 20%	0.35" / <i>9</i>	0.13" / <i>3.3</i>	0.03" / <i>0.65</i>

\*Some tolerances are not available over the entire resistance range.

#### STANDARD TEMP. COEFFICIENT OF RESISTANCE

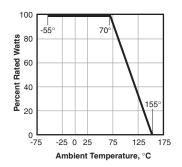
Series	100 PPM/°C	200 PPM/°C	300 PPM/°C	
MOX200	100K-100MΩ	101M-1000MΩ	1001M-1500M $\Omega$	
MOX300	100K-100MΩ	101M-1000MΩ	1001M-2500M $\Omega$	

#### AVAILABLE TOLERANCES

Tolerance	Maximum Val MOX200	ue Available MOX300
0.10%	10MΩ	10ΜΩ
0.25%	$20M\Omega$	$20M\Omega$
0.50%	$30M\Omega$	$30M\Omega$
1%-20%	1500MQ	2500MQ

PERFORMANCE DATA				
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	10,000M $\Omega$ 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



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