

Power-Mox

Precision Power Thick Film High Voltage/High Resistance Tubular



The heavy duty construction of the Power-Mox series make them durable in most high voltage industrial applications. This product is well known for its high voltage ratings, low voltage coefficients, very high ohmic values, and resistor divider options. Terminations can be selected to adapt to most mounting schemes.

APPLICATIONS

- Power Transmitters
- Pollution Control Systems
- Industrial Control Systems
- Current pulse limiters
- Vacuum and space application

FEATURES

- Wide resistance ranges
- Outstanding voltage coefficient
- 0.4" diameter ferrule, 0.25"-20 threaded end cap, or radial bands available
- Metal oxide resistive elements

SERIES SPECIFICATIONS

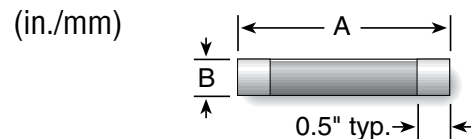
| Ohmite Series | Resistance Range (Ohms) | Power @25°C | Voltage Rating | Available Tolerances* |
|---------------|-------------------------|-------------|----------------|-----------------------|
| MOX-F | 1K to 800,000M | 25W | 20KV | 0.5, 1, 2, 5% |
| MOX-G | 1.5K to 1,000,000M | 40W | 30KV | 0.5, 1, 2, 5% |
| MOX-H | 2K to 1,000,000M | 50W | 45KV | 0.5, 1, 2, 5% |
| MOX-J | 3K to 1,000,000M | 75W | 60KV | 0.5, 1, 2, 5% |

*Some tolerances are not available over the entire resistance range

CHARACTERISTICS

| | |
|--------------------------------|--|
| Core | Ceramic |
| Coating | Varnish |
| Resistance Range | 1K to 1,000,000M |
| Power Rating | to 75W |
| Voltage Rating | to 60KV |
| Operating Temperature | -65°C to +180°C |
| Temperature Coefficient | 25ppm: 0° to 85°C; 50ppm: -55° to 180°C |

DIMENSIONS



| Ohmite Series | Power @25°C | A ± 0.05 | B Max |
|---------------|-------------|--------------|----------------|
| MOX-F | 25W | 3.0" / 76.2 | 0.770" / 19.56 |
| MOX-G | 40W | 4.5" / 114.3 | 0.770" / 19.56 |
| MOX-H | 50W | 6.0" / 152.4 | 0.770" / 19.56 |
| MOX-J | 75W | 8.0" / 203.2 | 0.770" / 19.56 |

ORDERING INFORMATION

| | | | |
|------------------------------------|------------------------------------|--|---|
| | Style F, G, H, J | Non-inductive | E = RoHS Compliant |
| MOX - J N - 0 4 1 0 0 6 F E | | | |
| Power Mox Series | Terminal | Ohms | Tolerance |
| | 01 = Silver termination only | First 3 digits are significant; 4th digit is multiplier (# of zeroes to follow). Examples: 10R2 = 10.2 ohms 1000 = 100 ohms 1503 = 150,000 ohms | D = 0.5% F = 1% G = 2% J = 5% K = 10% M = 15% P = 20% |
| | 02 = Radial band | | |
| | 03 = 0.4" Ferrule | | |
| | 04 = 1/4 X 20 threaded Ferrule cap | | |

Power-Mox Dividers

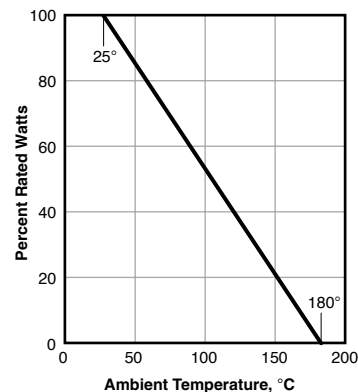
Precision Power Thick Film High Voltage/High Resistance Tubular Dividers

SERIES SPECIFICATIONS

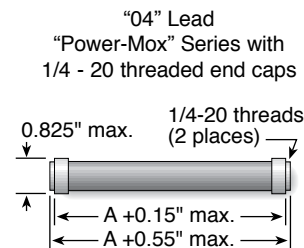
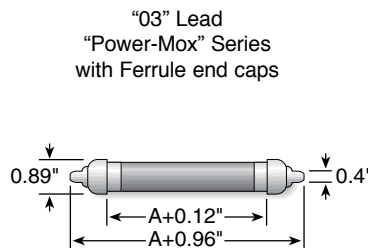
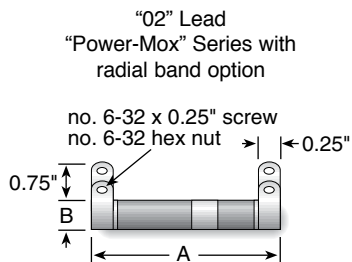
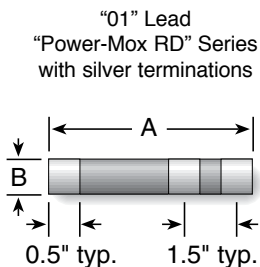
(dimensions as for Power-Mox)

| Ohmite Series | Resistance Range (Ohms) | Power @25°C | Voltage Rating | Maximum Ratio | Ratio Tolerances |
|---------------|-------------------------|-------------|----------------|---------------|------------------|
| MOX-FRD | 20K to 2,500M | 15W | 15KV | 5,000:1 | 1, 2, 5% |
| MOX-GRD | 20K to 4,000M | 30W | 25KV | 5,000:1 | 1, 2, 5% |
| MOX-HRD | 20K to 6,000M | 40W | 35KV | 5,000:1 | 1, 2, 5% |
| MOX-JRD | 20K to 6,000M | 60W | 50KV | 5,000:1 | 1, 2, 5% |

DERATING



POWER-MOX ALTERNATE TERMINALS



To specify Power-Mox Dividers, please see our website at:
www.ohmite.com/dividers

ORDERING INFORMATION

A complete description of the Power-MOX Divider is required. EXAMPLE:

RT = 500MΩ 5%

R1 = 499.5MΩ 5%

R2 = 500KΩ 1%

Ratio = RT / R2 = 1,000: 1, 1%

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