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%

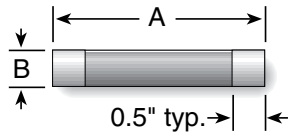
*Some tolerances are not available over the entire resistance range

CHARACTERISTICS

Core	Ceramic
Coating	Varnish
Resistance Range	1K to 1,000,000M
Power Rating	to 100W
Voltage Rating	to 90KV
Operating Temperature	-65°C to +180°C
Temperature Coefficient	25ppm: 0° to 85°C; 50ppm: -55° to 180°C

DIMENSIONS

(in./mm)



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**

M O X - J N - 0 4 1 0 0 6 F E

Power Mox Series

Terminal
01 = Silver termination only
02 = Radial band
03 = 0.4" Ferrule
04 = 1/4 X 20 threaded Ferrule cap

Ohms
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

Tolerance
D = 0.5%
F = 1%
G = 2%
J = 5%
K = 10%
M = 15%
P = 20%

Power-Mox Dividers

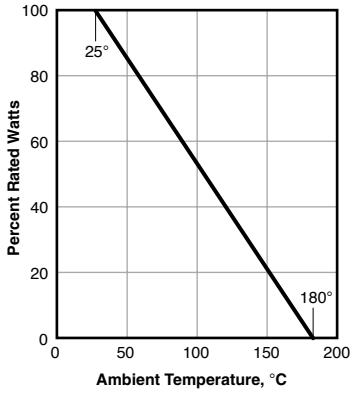
Precision Power Thick Film
High Voltage/High Resistance Tubular Dividers

SERIES SPECIFICATIONS

(dimensions as for Power-Mox)

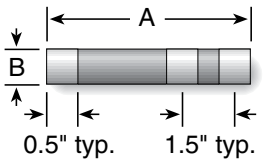
Ohmite Series	Resistance Range (Ohms)	Power @25°C	Voltage Rating	Maximum Ratio	Ratio Tolerances
MOX-FRD	20K to 2,500M	15W	15KV	5,000:1	1, 2, 5%
MOX-GRD	20K to 4,000M	30W	25KV	5,000:1	1, 2, 5%
MOX-HRD	20K to 6,000M	40W	35KV	5,000:1	1, 2, 5%
MOX-JRD	20K to 6,000M	60W	50KV	5,000:1	1, 2, 5%

DERATING

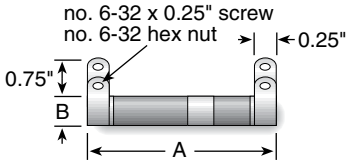


POWER-MOX ALTERNATE TERMINALS

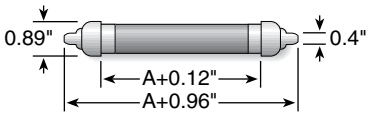
"01" Lead
"Power-Mox RD" Series
with silver terminations



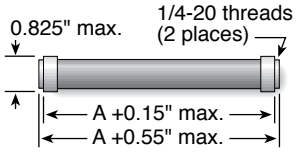
"02" Lead
"Power-Mox" Series with
radial band option



"03" Lead
"Power-Mox" Series
with Ferrule end caps



"04" Lead
"Power-Mox" Series with
1/4 - 20 threaded end caps



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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