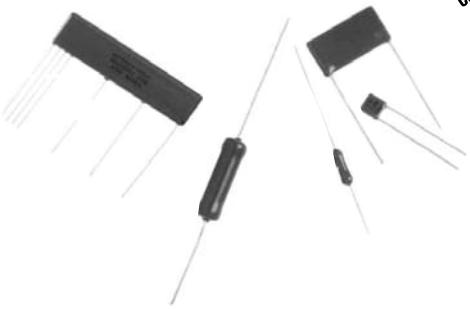
Slim-Mox

Precision Thick Film Planar



APPLICATIONS

- HV power supplies
- Medical instrumentation
- Current pulse limiters
- Ionization chambers

FEATURES

- High dielectric & low out-gassing epoxy coating
- Low resistor noise
- Non inductive
- RoHS compliant
- Radial terminals

SERIES SPECIFICATIONS

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Max. Operating Voltage	Capac-itance (pf)
SLIM-MOX10003	100Ω to 500M	0.25W	1.5KV	1.00
SLIM-MOX10103	100Ω to 1,000M	0.50W	2.0KV	1.00
SLIM-MOX10203	200Ω to 5,000M	1.00W	5.0KV	0.90
SLIM-MOX10303	250Ω to 5,000M	1.25W	7.5KV	0.75
SLIM-MOX10403	500Ω to 5,000M	1.50W	10.0KV	0.70
SLIM-MOX10603	750Ωto 5,000M	2.00W	15.0KV	0.65
SLIM-MOX10803	1K to 5,000M	2.50W	20.0KV	0.60
SLIM-MOX20203	500Ω to 5,000M	1.50W	5.0KV	1.10
SLIM-MOX20403	1K to 5,000M	2.00W	10.0KV	0.80
SLIM-MOX20603	2K to 5,000M	2.50W	15.0KV	0.75
SLIM-MOX20803	2K to 5,000M	3.00W	20.0KV	0.65
SLIM-MOX21003	3K to 5,000M	3.50W	25.0KV	0.60
SLIM-MOX30603	3K to 5,000M	3.50W	15.0KV	0.75
SLIM-MOX30803	4K to 5,000M	4.00W	20.0KV	0.50
SLIM-MOX31003	5K to 5,000M	4.50W	25.0KV	0.40
SLIM-MOX40403	3K to 5,000M	3.00W	10.0KV	1.00
SLIM-MOX40803	5K to 5,000M	5.00W	20.0KV	0.80
SLIM-MOX41003	5K to 5,000M	5.50W	25.0KV	0.50

Contact Ohmite for custom configurations. *Maximum voltage and power rating determined by Ohm's law: $P=V^2/R$

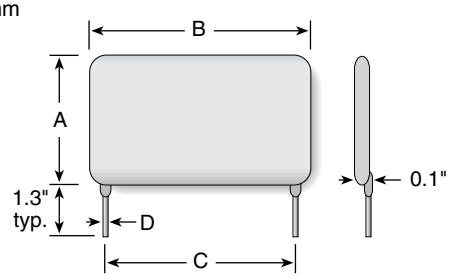
Ohmite's Slim-Mox provides stable performance for a wide range of resistance values, with voltage ratings up to 25K. Low temperature coefficients are available for high stability circuit applications. The space-saving planar package offers and alternative to traditional high voltage resistors.

CHARACTERISTICS

Resistor Element	Thick film on Alumina
Coating	Epoxy or Silicone
Terminals	RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
Resistance Range	100 Ohms to 5,000M
Power Rating	0.25W to 5.5W
Voltage Rating	1.5KV to 25KV
Tolerance	0.5% to 20%; not all tolerances available in all values
Operating Temperature	-55°C to +110°C
Temperature Coefficient	See table

DIMENSIONS

in./mm



Series	Power @25°C	A max.	B max.	C ±0.025	D ±0.002
SLIM-MOX10003	0.25W	0.30" / 7.62	0.30" / 7.62	0.10" / 2.54	0.025" / 0.635
SLIM-MOX10103	0.50W	0.34" / 8.64	0.33" / 8.38	0.20" / 5.08	0.025" / 0.635
SLIM-MOX10203	1.00W	0.34" / 8.64	0.58" / 14.73	0.40" / 10.16	0.032" / 0.813
SLIM-MOX10303	1.25W	0.34" / 8.64	0.83" / 21.08	0.60" / 15.24	0.032" / 0.813
SLIM-MOX10403	1.50W	0.34" / 8.64	1.08" / 27.43	0.90" / 22.86	0.032" / 0.813
SLIM-MOX10603	2.00W	0.34" / 8.64	1.58" / 40.13	1.40" / 35.56	0.032" / 0.813
SLIM-MOX10803	2.50W	0.34" / 8.64	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX20203	1.50W	0.59" / 14.99	0.58" / 14.73	0.40" / 10.16	0.032" / 0.813
SLIM-MOX20403	2.00W	0.59" / 14.99	1.08" / 27.43	0.90" / 22.86	0.032" / 0.813
SLIM-MOX20603	2.50W	0.59" / 14.99	1.58" / 40.13	1.40" / 35.56	0.032" / 0.813
SLIM-MOX20803	3.00W	0.59" / 14.99	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX21003	3.50W	0.59" / 14.99	2.58" / 65.53	2.40" / 60.96	0.032" / 0.813
SLIM-MOX30603	3.50W	0.84" / 21.34	1.58" / 40.13	1.40" / 35.56	0.032" / 0.813
SLIM-MOX30803	4.00W	0.84" / 21.34	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX31003	4.50W	0.84" / 21.34	2.58" / 65.53	2.40" / 60.96	0.032" / 0.813
SLIM-MOX40403	3.00W	1.09" / 27.69	1.08" / 27.43	0.90" / 22.86	0.032" / 0.813
SLIM-MOX40803	5.00W	1.09" / 27.69	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX41003	5.50W	1.09" / 27.69	2.58" / 65.53	2.40" / 60.96	0.032" / 0.813

Slim-Mox Divider

Precision Thick Film Voltage

Multiple taps are provided on the Slim-Mox RD for use in advanced circuit designs. Tight ratio tolerances make these resistors ideal for precision applications requiring consistent performance.

FEATURES

- Custom configurations are available. Contact Ohmite with your specifications
- RoHS compliant

CHARACTERISTICS

Resistance range	1M to 5,000M ohms
Resistance ratio	100:1 - 5000 : 1 To specify dividers outside this range, please see our website at: **https://www.ohmite.com/custom-resistor-divider/** A complete description of the SLIM-MOX Divider is required. EXAMPLE: R_T = 500MΩ 5% R_1 = 499.5MΩ 5% R_2 = 500KΩ 1% Ratio = R_T / R_2 = 1,000: 1, 1%
Resistor element	Thick film on Alumina
Ratio tolerances	0.5% to 5%
Temperature Coefficient Tracking	TCR tracking to 10ppm and VCR tracking to 1ppm

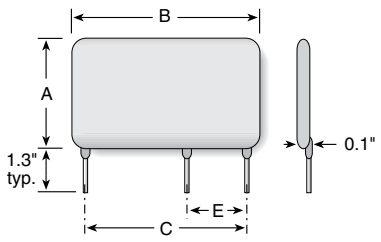
SERIES SPECIFICATIONS

Ohmite Series	Power @25°C	Operating Voltage
SLIM-MOX103RD	0.75W	5.0KV
SLIM-MOX104RD	1.00W	10.0KV
SLIM-MOX106RD	1.50W	12.0KV
SLIM-MOX108RD	2.00W	15.0KV
SLIM-MOX204RD	1.50W	10.0KV
SLIM-MOX206RD	2.00W	12.0KV
SLIM-MOX208RD	2.50W	20.0KV
SLIM-MOX210RD	3.00W	25.0KV
SLIM-MOX306RD	3.00W	12.0KV
SLIM-MOX308RD	3.50W	20.0KV
SLIM-MOX310RD	4.00W	25.0KV
SLIM-MOX408RD	4.50W	20.0KV
SLIM-MOX410RD	5.00W	25.0KV

Contact Ohmite for custom configurations.

DIMENSIONS

in. ±.025 /mm



Series	C	E
SLIM-MOX103RD	0.60”/ 15.24	0.20”/ 5.08
SLIM-MOX104RD	0.90”/ 22.86	0.20”/ 5.08
SLIM-MOX106RD	1.40”/ 35.56	0.20”/ 5.08
SLIM-MOX108RD	1.90”/ 48.26	0.60”/ 15.24
SLIM-MOX204RD	0.90”/ 22.86	0.20”/ 5.08
SLIM-MOX206RD	1.40”/ 35.56	0.20”/ 5.08
SLIM-MOX208RD	1.90”/ 48.26	0.40”/ 10.16
SLIM-MOX210RD	2.40”/ 60.96	0.20”/ 5.08
SLIM-MOX306RD	1.40”/ 35.56	0.30”/ 7.62
SLIM-MOX308RD	1.90”/ 48.26	0.30”/ 7.62
SLIM-MOX310RD	2.40”/ 60.96	0.20”/ 5.08
SLIM-MOX408RD	1.90”/ 48.26	0.30”/ 7.62
SLIM-MOX410RD	2.40”/ 60.96	0.20”/ 5.08

Slim-Mox HT

High Temperature Thick Film Precision

The Slim-Mox HT provides a higher power rating for high ambient temperature environments. Appropriate for mounting near heat generating components. The Slim-Mox HT is finished with a rugged silicone coating suitable for most environments.

APPLICATIONS

- HV power supplies
- Medical instrumentation
- Current pulse limiters
- Ionization chambers

FEATURES

- Outstanding voltage coefficient
- High temperature silicone coating
- Low resistor noise
- Noninductive
- Custom configurations are available. Contact Ohmite with your specifications
- RoHS compliant
- Radial Terminals

SERIES SPECIFICATIONS

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Voltage Rating
SLIM-MOX10002	100Ω to 500M	0.40W	1.5KV
SLIM-MOX10102	100Ω to 1,000M	0.75W	2.0KV
SLIM-MOX10202	200Ω to 5,000M	1.50W	5.0KV
SLIM-MOX10302	250Ω to 5,000M	2.00W	7.5KV
SLIM-MOX10402	500Ω to 5,000M	2.50W	10.0KV
SLIM-MOX10602	750Ω to 5,000M	3.25W	15.0KV
SLIM-MOX10802	1K to 5,000M	4.25W	20.0KV
SLIM-MOX20202	500Ω to 5,000M	2.50W	5.0KV
SLIM-MOX20402	1K to 5,000M	3.25W	10.0KV
SLIM-MOX20602	2K to 5,000M	4.25W	15.0KV
SLIM-MOX20802	2K to 5,000M	5.00W	20.0KV
SLIM-MOX21002	3K to 5,000M	5.75W	25.0KV
SLIM-MOX30602	3K to 5,000M	5.50W	15.0KV
SLIM-MOX30802	4K to 5,000M	6.75W	20.0KV
SLIM-MOX31002	5K to 5,000M	7.50W	25.0KV
SLIM-MOX40402	3K to 5,000M	5.00W	10.0KV
SLIM-MOX40802	5K to 5,000M	8.25W	20.0KV
SLIM-MOX41002	5K to 5,000M	9.00W	25.0KV

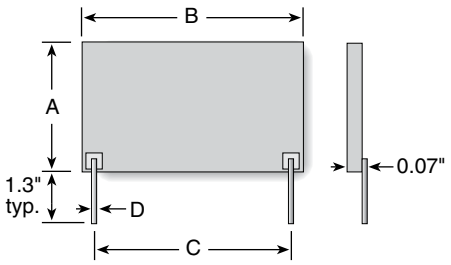
Contact Ohmite for custom configurations.

CHARACTERISTICS

Resistor Element	Thick film on Alumina
Coating	Silicone
Resistance Range	100Ω to 5,000M
Power Rating	0.25W to 9.0W
Voltage Rating	1.5KV to 25KV
Tolerance	0.5% to 20%; not all tolerances available in all values
Operating Temperature	-55°C to +180°C

DIMENSIONS

in. /mm



Series	Power @25°C	A max.	B max.	C ±0.025	D ±0.002
SLIM-MOX10002	0.40W	0.20" / 5.08	0.20" / 5.08	0.10" / 2.54	0.025" / 0.635
SLIM-MOX10102	0.75W	0.25" / 6.35	0.25" / 6.35	0.20" / 5.08	0.025" / 0.635
SLIM-MOX10202	1.50W	0.25" / 6.35	0.50" / 12.70	0.40" / 10.16	0.032" / 0.813
SLIM-MOX10302	2.00W	0.25" / 6.35	0.75" / 19.05	0.60" / 15.24	0.032" / 0.813
SLIM-MOX10402	2.50W	0.25" / 6.35	1.00" / 25.40	0.90" / 22.86	0.032" / 0.813
SLIM-MOX10602	3.25W	0.25" / 6.35	1.50" / 38.10	1.40" / 35.56	0.032" / 0.813
SLIM-MOX10802	4.25W	0.25" / 6.35	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX20202	2.50W	0.50" / 12.70	0.50" / 12.70	0.40" / 10.16	0.032" / 0.813
SLIM-MOX20402	3.25W	0.50" / 12.70	1.00" / 38.10	0.90" / 22.86	0.032" / 0.813
SLIM-MOX20602	4.25W	0.50" / 12.70	1.50" / 38.10	1.40" / 35.56	0.032" / 0.813
SLIM-MOX20802	5.00W	0.50" / 12.70	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX21002	5.75W	0.50" / 12.70	2.50" / 63.50	2.40" / 60.96	0.032" / 0.813
SLIM-MOX30602	5.50W	0.75" / 19.05	1.50" / 38.10	1.40" / 35.56	0.032" / 0.813
SLIM-MOX30802	6.75W	0.75" / 19.05	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX31002	7.50W	0.75" / 19.05	2.50" / 63.50	2.40" / 60.96	0.032" / 0.813
SLIM-MOX40402	5.00W	1.00" / 25.40	1.00" / 25.40	0.90" / 22.86	0.032" / 0.813
SLIM-MOX40802	8.25W	1.00" / 25.40	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX41002	9.00W	1.00" / 25.40	2.50" / 63.50	2.40" / 60.96	0.032" / 0.813

Slim-Mox HT Divider

High Temperature Thick Film Voltage Divider

Slim-Mox HT RD resistor dividers complete the Slim-Mox family with the high temperature divider configuration. These resistors are useful wherever multiple voltage drops are needed in a circuit. Designed to customer specifications, the Slim-Mox HT RD resistor utilizes our thick film on alumina technology to offer flexible termination schemes.

FEATURES

- High Temperature Operation
- RoHS compliant
- Radial Terminals

SERIES SPECIFICATIONS

Ohmite Series	Power @25°C	Operating Voltage
SLIM-MOX103RD	1.25W	5.0KV
SLIM-MOX104RD	1.50W	10.0KV
SLIM-MOX106RD	2.50W	12.0KV
SLIM-MOX108RD	3.25W	15.0KV
SLIM-MOX204RD	2.50W	10.0KV
SLIM-MOX206RD	3.25W	12.0KV
SLIM-MOX208RD	4.25W	20.0KV
SLIM-MOX210RD	5.00W	25.0KV
SLIM-MOX306RD	4.50W	12.0KV
SLIM-MOX308RD	5.00W	20.0KV
SLIM-MOX310RD	5.75W	25.0KV
SLIM-MOX408RD	6.75W	20.0KV
SLIM-MOX410RD	7.50W	25.0KV

Contact Ohmite for custom configurations.

CHARACTERISTICS

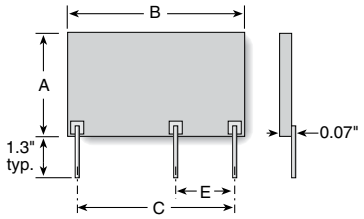
Resistance range	1M to 5,000M ohms
Resistance ratio	100:1 - 5000 : 1 To specify dividers outside this range, please see our website at: **https://www.ohmite.com/custom-resistor-divider/** A complete description of the SLIM-MOX Divider is required. EXAMPLE: R_T = 500MΩ 5% R_1 = 499.5MΩ 5% R_2 = 500KΩ 1% Ratio = R_T / R_2 = 1,000: 1, 1%
Resistor element	Thick film on Alumina
Ratio tolerances	0.5% to 5%
Temperature Coefficient Tracking	TCR tracking to 10ppm and VCR tracking to 1ppm

To specify Slim-Mox Dividers, please see our website at:

https://www.ohmite.com/custom-resistor-divider/

DIMENSIONS

in. ±0.025 /mm



Series	Power Rating	C	E
SLIM-MOX103RD	1.25W	0.60” / 15.24	0.20” / 5.08
SLIM-MOX104RD	1.50W	0.90” / 22.86	0.20” / 5.08
SLIM-MOX106RD	2.50W	1.40” / 35.56	0.20” / 5.08
SLIM-MOX108RD	3.25W	0.90” / 22.86	0.60” / 15.24
SLIM-MOX204RD	2.50W	0.90” / 22.86	0.20” / 5.08
SLIM-MOX206RD	3.25W	1.40” / 35.56	0.20” / 5.08
SLIM-MOX208RD	4.25W	1.90” / 48.26	0.40” / 10.16
SLIM-MOX210RD	5.00W	2.40” / 60.96	0.20” / 5.08
SLIM-MOX306RD	4.50W	1.40” / 35.56	0.30” / 7.62
SLIM-MOX308RD	5.00W	1.90” / 48.26	0.30” / 7.62
SLIM-MOX310RD	5.75W	2.40” / 60.96	0.20” / 5.08
SLIM-MOX408RD	6.75W	1.90” / 48.26	0.30” / 7.62
SLIM-MOX410RD	7.50W	2.40” / 60.96	0.20” / 5.08

(continued)

Slim-Mox

All products

TEMPERATURE/VOLTAGE COEFFICIENTS OF RESISTANCE

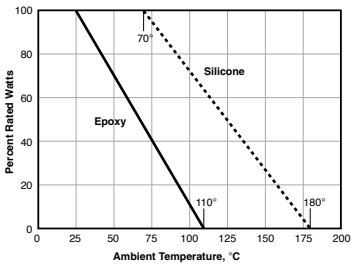
Resistor Series	Temp. Coeff. of Resistance* 0°C-85°C 25 PPM/°C	85°C-125°C 50 PPM/°C	85°C-125°C 100 PPM/°C	Voltage Coeff. of Resistance** < 2PPM/Volt	Voltage Coeff. of Resistance** < 5PPM/Volt
SLIM-MOX100	100 to 300M	100Ω to 50M	51M to 500M	100Ω to 140M	141M to 500M
SLIM-MOX101	100 to 800M	100Ω to 100M	101M to 1,000M	100Ω to 270M	271M to 1,000M
SLIM-MOX102	200 to 1,500M	200Ω to 250M	251M to 5,000M	200Ω to 640M	641M to 5,000M
SLIM-MOX103	250 to 800M	250Ω to 440M	441M to 5,000M	250Ω to 1,100M	1,101M to 5,000M
SLIM-MOX104	500 to 2,500M	500Ω to 450M	451M to 5,000M	500Ω to 1,100M	1,101M to 5,000M
SLIM-MOX106	750 to 5,000M	750Ω to 675M	676M to 5,000M	750Ω to 1,600M	1,601M to 5,000M
SLIM-MOX108	1K to 2,500M	1K to 375M	376M to 5,000M	1K to 940M	941M to 5,000M
SLIM-MOX202	500 to 1,500M	500Ω to 200M	201M to 5,000M	500Ω to 520M	521M to 5,000M
SLIM-MOX204	1K to 1,750M	1K to 375M	376M to 5,000M	1K to 950M	951M to 5,000M
SLIM-MOX206	2K to 4,500M	2K to 600M	601M to 5,000M	2K to 1,500M	1,501M to 5,000M
SLIM-MOX208	2K to 5,000M	2K to 1,000M	1,001M to 5,000M	2K to 2,500M	2,501M to 5,000M
SLIM-MOX210	3K to 5,000M	3K to 1,000M	1,001M to 5,000M	3K to 2,600M	2,601M to 5,000M
SLIM-MOX306	3K to 5,000M	3K to 1,000M	1,001M to 5,000M	3K to 2,600M	2,601M to 5,000M
SLIM-MOX308	4K to 5,000M	4K to 1,200M	1,201M to 5,000M	4K to 3,000M	3,001M to 5,000M
SLIM-MOX310	5K to 5,000M	5K to 1,500M	1,501M to 5,000M	5K to 4,000M	4,001M to 5,000M
SLIM-MOX404	3K to 5,000M	3K to 1,100M	1,101M to 5,000M	3K to 2,800M	2,801M to 5,000M
SLIM-MOX408	5K to 5,000M	5K to 1,250M	1,251M to 5,000M	5K to 3,000M	3,001M to 5,000M
SLIM-MOX410	5K to 5,000M	5K to 1,200M	1,201M to 5,000M	5K to 3,000M	3,001M to 5,000M
SLIM-MOX103RD	1M to 800M	1M to 70M	71M to 5,000M	1M to 185M	186M to 5,000M
SLIM-MOX104RD	1M to 2,500M	1M to 275M	276M to 5,000M	1M to 720M	721M to 5,000M
SLIM-MOX106RD	1M to 5,000M	1M to 250M	251M to 5,000M	1M to 640M	641M to 5,000M
SLIM-MOX108RD	1M to 2,500M	1M to 350M	351M to 5,000M	1M to 875M	876M to 5,000M
SLIM-MOX204RD	1M to 1,750M	1M to 300M	301M to 5,000M	1M to 750M	751M to 5,000M
SLIM-MOX206RD	1M to 4,500M	1M to 1,750M	1,751M to 5,000M	1M to 4,500M	4,501M to 5,000M
SLIM-MOX208RD	1M to 5,000M	1M to 625M	626M to 5,000M	1M to 1,550M	1,551M to 5,000M
SLIM-MOX210RD	1M to 5,000M	1M to 950M	951M to 5,000M	1M to 2,400M	2,401M to 5,000M
SLIM-MOX306RD	1M to 5,000M	1M to 800M	801M to 5,000M	1M to 2,000M	2,001M to 5,000M
SLIM-MOX308RD	1M to 5,000M	1M to 1,200M	1,201M to 5,000M	1M to 2,600M	2,601M to 5,000M
SLIM-MOX310RD	1M to 5,000M	1M to 1,000M	1,001M to 5,000M	1M to 3,900M	3,901M to 5,000M
SLIM-MOX408RD	1M to 5,000M	1M to 1,600M	1,601M to 5,000M	1M to 4,000M	4,001M to 5,000M
SLIM-MOX410RD	1M to 5,000M	1M to 1,200M	1,201M to 5,000M	1M to 3,000M	3,001M to 5,000M

* Consult factory for TCR values operating higher than 125°C
**VC's of <2PPM/Volt are available. Contact Ohmite with your requirement.

PERFORMANCE DATA

Characteristic	Test Method	Specification
Humidity	MIL-STD-202, Method 103B, Condition B	±0.25%
Dielectric Withstanding Voltage	MIL-STD-202, Method 301, 750V	±0.25%
Insulation Resistance	MIL-STD-202, Method 302, Condition A or B	>10,000M or greater dry
Thermal Shock	MIL-STD-202, Method 107G, Condition B, B-1, or F	±0.20%
Load Life	MIL-STD-202, Method 108A, Condition D	±1.0%
Resistance to Solvents	MIL-STD-202, Method 215G	No degradation of coating or marking
Terminal Strength	MIL-STD-202, Method 211A, Condition A or B	±0.25%
Shock (Specified Pulse)	MIL-STD-202, Method 213B, Condition I	±0.25%
Vibration, High Frequency	MIL-STD-202, Method 204D, Condition D	±.020%
Power Conditioning	MIL-R-49462A, Par 4.8	±0.50%
Solderability	MIL-STD-202, Method 208F	>95% Coverage

DERATING



ORDERING INFORMATION

Coating
2 = Blue silicone (high temp.)
3 = Epoxy (standard)
6 = No coating

Style
100 to 410

Tape & Reel

RoHS Compliant

S M 1 0 2 0 3 1 0 0 6 F T E

Slim Mox Series

Terminal
0 = 0.032" std. (for SM102 - 410)
0 = 0.025" std. (SM100 and 101)

Ohms
First 3 digits are significant; 4th digit is multiplier (# of zeroes to follow). Examples:
1000 = 100Ω
1503 = 150,000Ω
5005 = 50,000,000Ω

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

Not all tolerances available in all values.
To specify Slim-Mox Dividers, please see our website at:
https://www.ohmite.com/custom-resistor-divider/

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