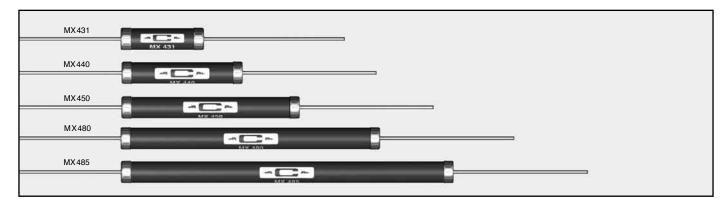
Type MX Precision High Voltage Resistors

Cost Effective High Voltage Resistors for Industrial and General Purpose Applications

The Type MX Precision High Voltage Resistors were specifically developed for use in industrial and general purpose high voltage systems. These resistors combine the proven performance of Caddock's Micronox[®] resistance system with new cost efficient design elements. These resistors are intended for the design of high voltage systems where the system is not exposed to full military or space grade operating conditions. For full military or space grade operating conditions, we recommend Caddock's **Type TG Low TC Precision High Voltage Resistors** or **Type MG Precision High Voltage Resistors**. The performance features of the Type MX Precision High Voltage Resistors are:

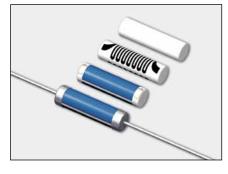
- · Five Models with Voltage Ratings from 7.5 KV to 32 KV.
- Temperature Coefficient: 80 ppm/°C from 0°C to +70°C.
- · Load Life Stability of 0.50% per 1,000 hours.
- · Resistance Tolerance: 1% Standard.
- · Non-Inductive Design.
- Resistance Range from 1 Megohm to 1,000 Megohms.



Model	Watt- age	Max. Continuous Oper. Volt.	TC ppm/ °C	Resistance		Dimensions in inches and (millimeters)		
No.				Min.	Max.	Α	В	с
MX431	2.0	7,500	80	1 Meg	150 Meg	.940 ±.040 (23.88 ±1.02)	.270 ±.020 (6.86 ±.51)	.040 ±.002 (1.02 ±.05)
MX440	3.5	11,000	80	1.5 Meg	300 Meg	1.450 ±.040 (36.83 ±1.02)	.270 ±.020 (6.86 ±.51)	.040 ±.002 (1.02 ±.05)
MX450	5.0	16,000	80	2 Meg	500 Meg	2.080 ±.040 (52.83 ±1.02)	.270 ±.020 (6.86 ±.51)	.040 ±.002 (1.02 ±.05)
MX480	7.5	24,000	80	3 Meg	750 Meg	3.080 ±.050 (78.23 ±1.27)	.270 ±.020 (6.86 ±.51)	.040 ±.002 (1.02 ±.05)
MX485	10.0	32,000	80	4 Meg	1,000 Meg	3.940 ±.050 (100.08 ±1.27)	.270 ±.020 (6.86 ±.51)	.040 ±.002 (1.02 ±.05)

Type MX Resistors Utilize Caddock's Patented Coating Design

Type MX Precision High Voltage Resistors combine Caddock's Non-Inductive serpentine pattern with a patented, high thru-put screen printed silicone coating. The alignment of the gap in the coating pattern with the gap in the serpentine resistor pattern provides a complete encapsulation of the resistor element. The cap and lead assemblies are pressed onto the resistor core, finishing the resistor and providing rugged terminal attachment.



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For Caddock Distributors listed by country see caddock.com/contact/dist.html



Standard Resistance Values:

1% tolerance standard

1.00 Meg	10.0 Meg	100 Meg	1000 Meg
2.00 Meg	20.0 Meg	200 Meg	
2.50 Meg	25.0 Meg	250 Meg	
5.00 Meg	50.0 Meg	500 Meg	

Non-standard (custom) resistance values are available. Please contact Caddock Applications Engineering.

Specifications:

Temperature Coefficient: 80 ppm/°C referenced to +25°C, ΔR taken at 0°C and +70°C.

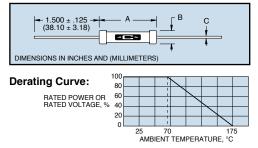
Thermal Shock: Mil-Std-202, Method 107, Cond. A, ΔR , 0.20% max.

Moisture Resistance: Mil-Std-202, Method 106, ΔR , 1.0% max.

Load Life: 1,000 hours at rated voltage at +70°C, not to exceed rated power, ΔR , 0.50% max.

Lead Material: Tinned copper clad steel, solderable.

Encapsulation: Screen printed high temperature silicone coating over resistor element.



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Caddock:

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