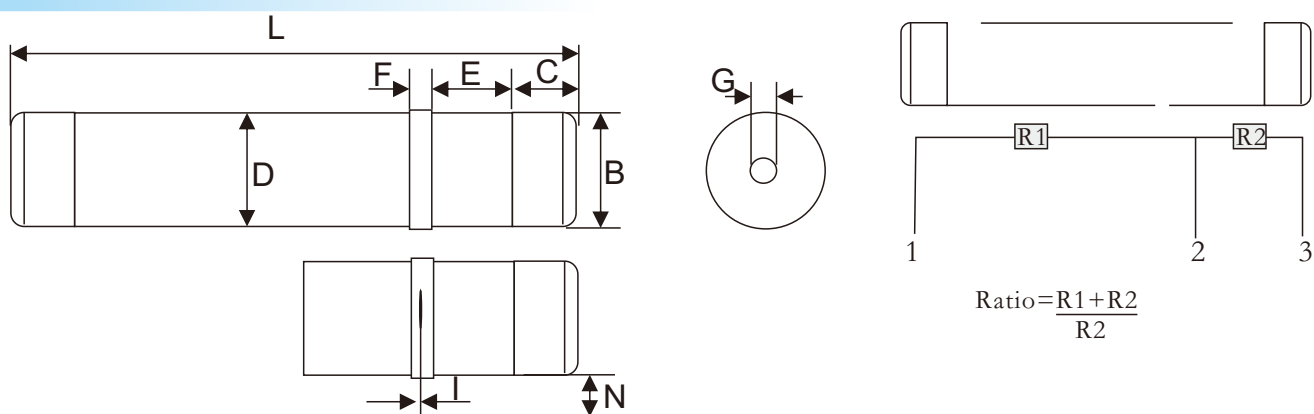




● Feature

- I MTX series non-inductive high-voltage resistors use high-quality ceramic substrates, have the characteristics of high mechanical strength, high load power, high precision and good temperature coefficient.
- II has the characteristics of small size, high voltage resistance, wide resistance range, etc., and is widely used in various electronic devices.
- III The resistor film layer adopts a special design form to pursue the largest possible effective resistance area, improve the reliability and pulse tolerance of the resistor, and has the characteristics of strong load moisture resistance, high temperature resistance, strong electrical pulse resistance and high long-term stability.

● Dimensions



Note: There are two ways to lead out the voltage divider terminal. MTX is a clamp lead-out terminal.

MTX--L is a high-voltage insulated wire lead-out terminal.

Example: MTX155 is a clamp lead-out terminal.

MTX155L is a high-voltage insulated wire lead-out terminal.

Type	Power @40°C	Resistance values (Ω)	Dimensions(mm)								
			L±2	B±0.5	D±0.5	C±0.2	F±0.5	E±2	G±2	I±0.1	N±1
MTX155	10W	2M-2G	155	16	15	10	8	6	M4	1.0	30
MTX300	15W		300	16	15	18	8	7	M4	1.0	30
MTX81	10W		81	21	20	8	4	6	M4	1.0	30
MTX214	20W		214	21	20	18	8	15	M4	1.0	30
MTX303	30W		303	26	25	18	4	10.5	M8	1.0	30

*Note: The voltage divider ends of I and N are Φ1.0 tinned copper wires.

● Power And Resistance etc

Type	Power @40°C	Resistance values (Ω)	TCR (PPM/°C)	Max. Power Voltage(KV)	Resistance tolerance
MTX155	10W	2M-2G	± 25ppm/°C	40KV	B=±0.1%
MTX300	15W			80KV	C=±0.25%
MTX81	10W			18KV	D=±0.5%
MTX214	20W			50KV	F=±1.0%
MTX303	30W			80KV	J=±5%
					K=±10%

Ordering Information

Example:

MTX	10W	F	50M	50
(1)	(2)	(3)	(4)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance	TCR

(1)Type: MTX ERIES

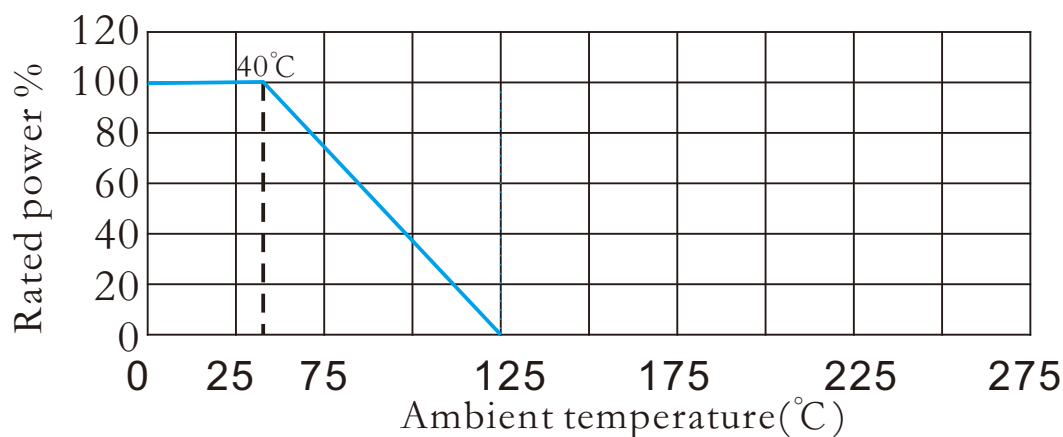
(2)Power Rating:155=10W、300=15W、81=10W、214=20W、303=30W

(3)Tolerance: B=±0.1%、C=±0.25%、D=±0.5%、F=±1.0%、J=±5%、K=±10%

(4)Resistance Value:0R10=0.1Ω、1R00=1Ω、30MR0=30MΩ

(5)TCR: ±100ppm/°C

Derating Curve



Performance

Test Item	Specifications
Resistance range(R1+R2):	2M-2GΩ beyond the resistance range can be negotiated for ordering
Voltage divider ratio	According to customer requirements
Resistance accuracy:	±0.1% ~ ±10%
Temperature coefficient range:	±25ppm/°C (25°C~85°C)
Power durability:	Rated power 1000 hours, $\Delta R \leq \pm 0.15\%R$
Moisture resistance:	MIL-Std-202, Method106, $\Delta R \leq \pm 0.25\%R$ 。
Thermal shock:	MIL-Std-202, Method107, Condition C, $\Delta R \leq \pm 0.20\%R$ 。
Operating temperature range:	-55°C~125°C
Cap material:	Brass nickel-plated M4 or M8 nut