

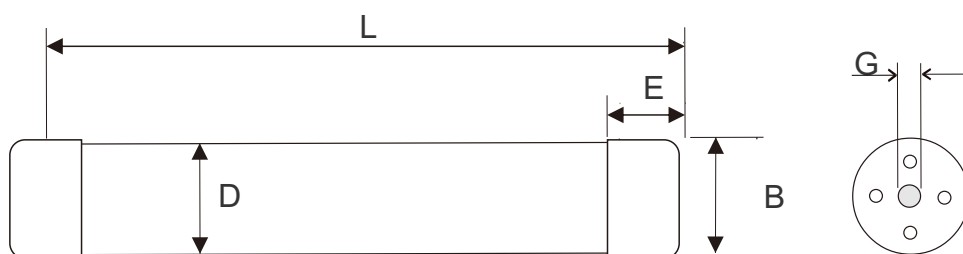


The MTT resistor series is designed for use in voltage dividers, medical equipment, electrostatic devices, measuring equipment and current limiting devices where high stability, low TCR, high ohmic values and high shortterm loads are required.

● Feature

- I up to 96 kV operating voltage
- II Tolerance range $\pm 0.1\%$ to $\pm 10\%$
- III Ohmic range $2\ \Omega$ to $25\ \text{G}\Omega$
- IV Non-Inductive design
- V ROHS compliant

● Dimensions



Type	Power @40°C	Resistance values (Ω)			Dimensions(mm)				
		Tolerance 2%-10% TCR 150,200ppm/°C	Tolerance 0.5%-10% TCR 50,100ppm/°C	Tolerance 0.1%-10% TCR 15,25ppm/°C	L	B ± 0.5	D ± 0.5	E ± 0.2	G
MTT	11W	500R-5G	500R-5G	50K-500M	81 ± 1	14.5	13.5	10	M4
	23W	700R-10G	700R-10G	100K-1G	156 ± 2	14.5	13.5	10	M4
	54W	2R-10G	2R-1G	100K-1G	160 ± 2	31.5	30.5	18	M8
	71W	20R-15G	20R-1.5G	100K-1.5G	211 ± 2.5	31.5	30.5	18	M8
	105W	80R-25G	80R-2G	100K-1G	310 ± 3.5	31.5	30.5	18	M8

● Power And Resistance etc

Type	Power @40°C	Resistance values (Ω)			TCR (PPM/°C)	Max. Power Voltage(KV)	Resistance tolerance
		Tolerance 2%-10% TCR 150,200ppm/°C	Tolerance 0.5%-10% TCR 50,100ppm/°C	Tolerance 0.1%-10% TCR 15,25ppm/°C			
MTT	11W	500R-5G	500R-5G	50K-500M	$\pm 15 \sim \pm 200$ ppm/°C	24KV	B= $\pm 0.1\%$ C= $\pm 0.25\%$ D= $\pm 0.5\%$ F= $\pm 1.0\%$ J= $\pm 5\%$ K= $\pm 10\%$
	23W	700R-10G	700R-10G	100K-1G		48KV	
	54W	2R-10G	2R-1G	100K-1G		48KV	
	71W	20R-15G	20R-1.5G	100K-1.5G		64KV	
	105W	80R-25G	80R-2G	100K-1G		96KV	

Ordering Information

Example:

MTT	11W	F	50M
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

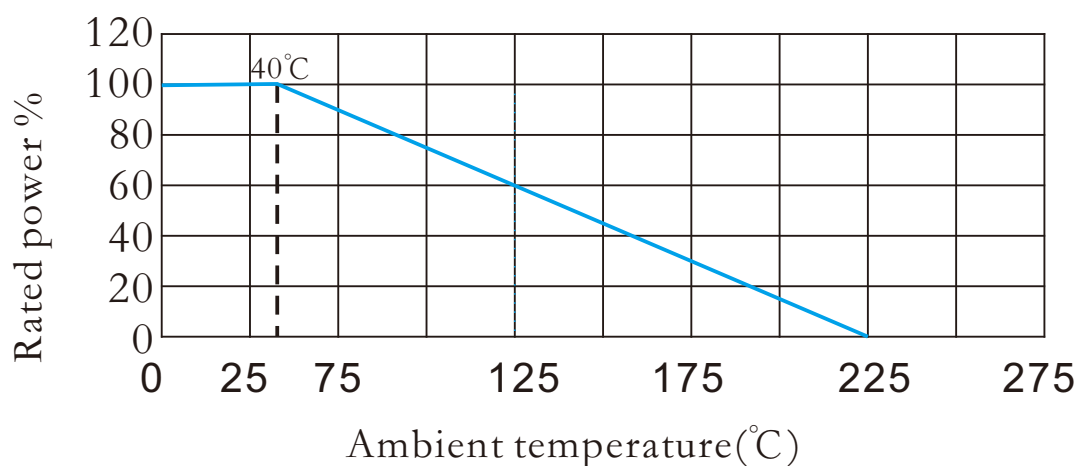
(1)Type: MTT SERIES

(2)Power Rating: 11=11W、23=23W、54=54W、71=71W、105=105W.....

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

(4)Resistance Value:50M=50M、100M=100M、1G=1G

Derating Curve



Performance

Test Item	Specifications
Resistance value	2 Ω ≤ 25 GΩ (see model specifications)
Resistance tolerance	±0.1% ~ ±10%
Temperature coefficient:	±15 ppm/°C to ±200 ppm/°C (at +85°C ref. to +25°C) lower TCR on special request for limited ohmic values
Max. Operating temperature:	-55°C to +225°C
Dielectric strength:	> 1,000 V (25°C, 75% relative humidity)
Load life:	ΔR/R 0.5% max., 1,000 hours at rated power
Moisture resistance:	ΔR/R 0.25% max.
Thermal shock:	ΔR/R 0.25% max.
Lead material:	caps, nickel-plated
Torque:	1.8 Nm to 2 Nm for M4, 3.8 Nm to 4 Nm for M8