

UT Thicker Film Tubular type Non-Inductive Resistors for Ultra High Voltage, High Energy

WILLOW
Technologies

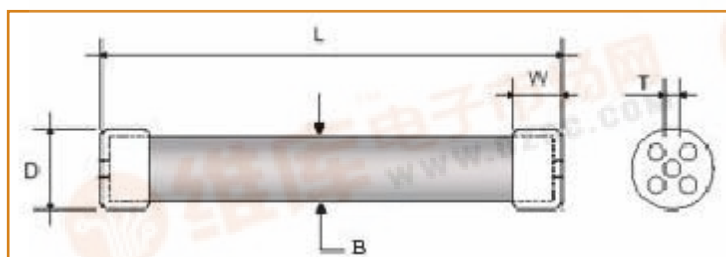

Ultra Voltage, High Frequency Pulse, R & R-C Tank, High Energy.

UT series to meet general set of requirements Ultra high voltage high energy at reasonable prices. And to be connection on M4, M6 . Corona Ring & Cap std. A wide range of R-Value & tolerance, TCR available.

* Power Rating Able to build up Mega Joules Energy System.

* Various Models with Voltage Ratings upto 800kV in oil, 300kV at free air.

DIMENSIONS [mm]



Model Nr.	Wattage	Max. Continuous Oper. Volt[kV]**	Dimensions in millimeters					
			L	B	D	Dia on Corona Ring, 'RC' type	W	T
UT 20	20	40	158+/-1.5	14+/-1.0	15+/-1	N/A	10+/-1.5	M4
UT 35	35	30	110+/-1.5	31+/-1.0	33+/-0.5	43	18+/-0.5	M6
UT 50	50	48	160+/-1.5	31+/-1.0	33+/-0.5	43	18+/-0.5	M6
UT 70	70	65	210+/-1.5	31+/-1.0	33+/-0.5	43	18+/-0.5	M6
UT 100	100	100	310+/-1.5	31+/-1.0	33+/-0.5	43	18+/-0.5	M6
UT 150	150	100	310+/-1.5	40+/-1.0	45+/-1.0	59	21+/-0.5	M6

Cap style : ex) UT100 -nc ; normal cap type , UT100 -rc ; Corona Ring & Cap type

* Terohm available on request

* Custom dimension, Terminations available

* Glass coat std. , epoxy coat available

* The Voltage Limited by Power

Electrical Specification for 20kΩ ~ 1000MΩ only

Vdc, Vac

pdf.dzsc.com



UT Thicker Film Tubular type Non-Inductive Resistors for Ultra High Voltage, High Energy



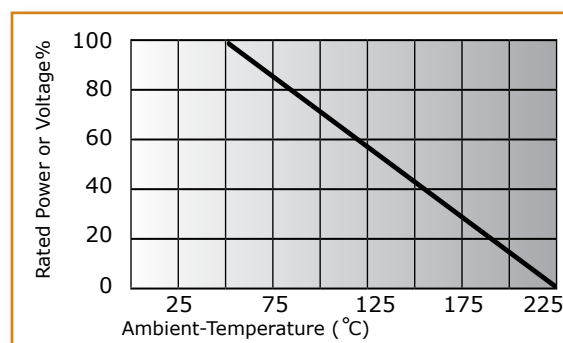
Model Nr.	Single Impulse Voltage 1.2/50 μ s [kV]	Std. R-value[Ω]	Low Extended R-value[Ω]	Hi Extended R-value[Ω]
UT20	77	1K~1G	20R~0.9K	1.1G~10T
UT35	50	1K~1G	10R~0.9K	1.1G~10T
UT50	77	1K~1G	10R~0.9K	1.1G~10T
UT70	100	1K~1G	10R~0.9K	1.1G~10T
UT100	150	1K~1G	10R~0.9K	1.1G~10T
UT150	150	1K~1G	10R~0.9K	1.1G~10T

* Electrical Specification for 20k Ω ~ 1000M Ω only

APPLICATION GUIDE ; UT SERIES

- Automated Test (ATE)
- Medical (Imaging)
- Ion Source
- Chromatography (Gas)
- Medical (PET, CT)
- Medical (Radiation Therapy)
- Military , Radar
- Plasmas ,Lasers
- Measurements (High Voltage)
- Capacitor Charging
- Microwave (Klystron)
- Medical (Blood Analyzers)
- Corona Generators
- Multichannel Analyzers
- Ozone Generating
- Detectors Nuclear
- Gamma Cameras
- Electron Beam Testing
- Surface Analysis
- CRT, X-Ray , MRI
- Electrophoresis
- Image Intensifier
- Surface Analysis
- Piezo. Focusing (Poling)
- High Voltage Dividers
- Stress Testing
- Agricultural Sensors
- Ion Beam
- Arc Furnace Damping
- High Voltage Snubbers
- Pulse Forming Networks
- Energy Research
- EMI
- Tube Arc Protection

DERATING CURVE



SPECIFICATIONS

Resistance Tolerance :

1%,2%,5%,10%

Temperature Coefficient :

Std. 100ppm/ °C, referenced to 25°C, from -15°C to +105°C, other TCR on requests.

Overload :

5times rated power with applied voltage not to exceed 1.5times Max. continuous operating voltage for 5 seconds, overload/ overvoltage ΔR 0.50% max.

Thermal Shock :

Mil-Std-202, Method- 107, Cond. C, ΔR 0.50% max.

Load Life :

1.000 hours at rated power ΔR 1.0% typ.

Moisture Resistance:

Mil-Std-202, Method 106, ΔR 0.50%.

Insulation Resistance :

10,000Megohms Min.

Termination Cap of Material :

Aluminum Alloy , Bronz
M4 / M6 Cap, &Rug available

Encapsulation :

Epoxy /silicone conformal/ Glass /

cf.: The described specifications & dimensions subject to change without notice.