



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

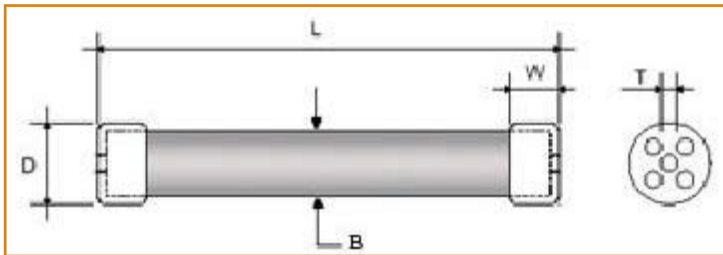
## Ultra Voltage, High Frequency Pulse, R & R-C Tank, High Energy.

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



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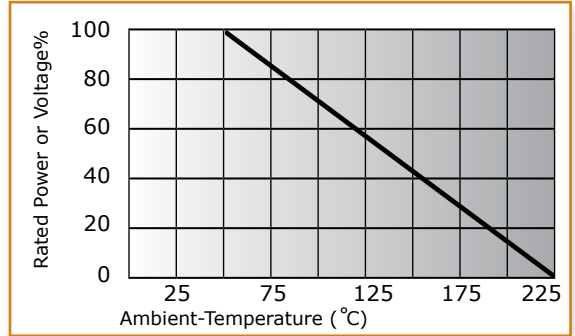
Model Nr.	Single Impulse Voltage 1.2/50 $\mu$ s [kV]	Std. R-value[ $\Omega$ ]	Low Extended R-value[ $\Omega$ ]	Hi Extended R-value[ $\Omega$ ]
UT20	77	1K~1G	20R~0.9K	1.1G~10T
UT35	50	1K~1G	10R~0.9K	1.1G~10T
UT50	77	1K~1G	10R~0.9K	1.1G~10T
UT70	100	1K~1G	10R~0.9K	1.1G~10T
UT100	150	1K~1G	10R~0.9K	1.1G~10T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

\* Electrical Specification for 20k $\Omega$  ~ 1000M $\Omega$  only

## APPLICATION GUIDE ; UT SERIES

· Automated Test (ATE)	· Gamma Cameras
· Medical (Imaging)	· Electron Beam Testing
· Ion Source	· Surface Analysis
· Chromatography (Gas)	· CRT, X-Ray , MRI
· Medical (PET, CT)	· Electrophoresis
· Medical (Radiation Therapy)	· Image Intensifier
· Military , Radar	· Surface Analysis
· Plasmas ,Lasers	· Piezo. Focusing (Poling)
· Measurements (High Voltage)	· High Voltage Dividers
· Capacitor Charging	· Stress Testing
· Microwave (Klystron)	· Agricultural Sensors
· Medical (Blood Analyzers)	· Ion Beam
· Corona Generators	· Arc Furnace Damping
· Multichannel Analyzers	· High Voltage Snubbers
· Ozone Generating	· Pulse Forming Networks
· Detectors Nuclear	· 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  $\Delta$ R 0.50% max.

### Thermal Shock :

Mil-Std-202, Method- 107, Cond. C,  $\Delta$ R 0.50% max.

### Load Life :

1.000 hours at rated power  $\Delta$ R 1.0% typ.

### Moisture Resistance:

Mil-Std-202, Method 106,  $\Delta$ R 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.