

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

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

3RLAB offers UT series for ultra high voltage & energy at reasonable prices. This is connected to the M4, M6. Corona ring & cap std. It has a wide range of R-Values, tolerance and TCR.

- * Power rating to build Mega Jules energy system.
- * Various Models with Voltage Ratings up to 800kV in oil, 300kV in free air.



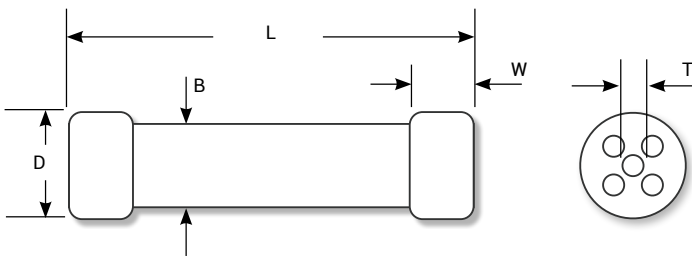
Model Nr.	Wattage	Max. Cotinuous Oper. Volt[kV]**	Dimensions in millimeters (Inches)					
			L	B	D	Dia on Corona Ring, 'RC' type	W	T
UT 35	35	30	110+/-1.5 (4.33)	32+/-1.5 (1.26)	33+/-0.5 (1.30)	45	18+/-0.5 (0.71)	M6
UT 50	50	48	160+/-1.5 (6.30)	32+/-1.5 (1.26)	33+/-0.5 (1.30)	45	18+/-0.5 (0.71)	M6
UT 70	70	65	210+/-1.5 (8.27)	32+/-1.5 (1.26)	33+/-0.5 (1.30)	45	18+/-0.5 (0.71)	M6
UT 100	100	100	310+/-1.5 (12.20)	32+/-1.5 (1.26)	33+/-0.5 (1.30)	45	18+/-0.5 (0.71)	M6
UT 150	150	100	310+/-1.5 (12.20)	42+/-1.5 (1.65)	45+/-1.0 (1.77)	59	21+/-0.5 (0.83)	M6

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

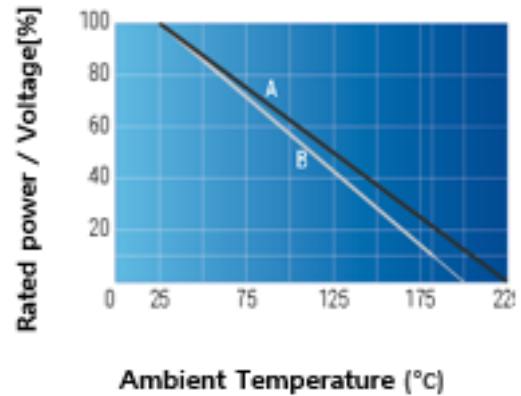
- * Terohm available on request
- * Custom dimensions & Terminations available
- * Glass coating std. , epoxy coating are available
- * The Voltage Limited by Power
- * Electrical Specifications for 20kΩ ~ 1000MΩ only
- ** Vdc , Vac

Model Nr.	Single Impulse Voltage 1.2/50μs [kV]	Std. R-value[Ω]
UT 35	50	1K to1G
UT 50	77	1K to1G
UT 70	100	1K to1G
UT 100	150	1K to1G
UT 150	150	1K to1G

DIMENSIONS[mm]



DERATING CURVE



SPECIFICATIONS

RESISTANCE TOLERANCE	1%,2%,5%
TEMPERATURE COEFFICIENT OF RESISTANCE	Std. 100ppm/ °C, referenced to 25°C, from -15°C to +105°C, other TCR on requests
OVERLOAD	5 times rated power with applied voltage not to exceed 1.5 times 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	10,000 Megohm Min.
TERMINATION CAP OF MATERIAL	Aluminum Alloy , Bronz M4 / M6 Cap, & Rug available
ENCAPSULATION	Epoxy /silicone confomal / Glass
TERMINATION CAP OF MATERIAL	Tin Cap
ENCAPSULATION	Epoxy conformal coating
RESISTIVE MATERIAL	Thicker Film
CONTACT METHOD BETWEEN RESISTIVES AND TERMINATION CAPS	Individual Conductive Pads called "NCR" Non-contact resistance

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UT SERIES: APPLICATION GUIDE

- Automated Test (ATE)
- Medical (Imaging)
- Ion Source
- Chromatography (Gas)
- Medical (PET, CT)
- Medical (Radiation Therapy)
- Military, Radar
- Plasmas, Lasers
- Measurement (High Voltage)
- Capacitors 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

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