

UT

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

RoHS
COMPLIANT

■ Features

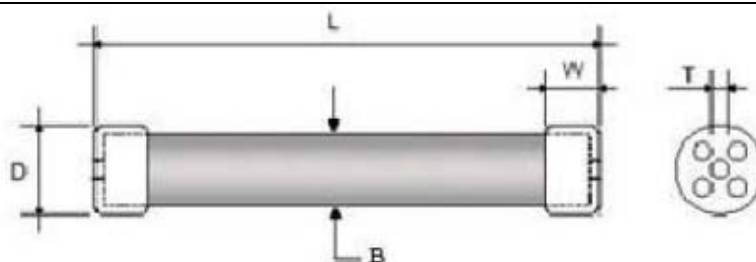
- UT series to meet general set of requirements Ultra high voltage high energy at reasonable prices.
- To be connection on M4, M6.
- Corona Ring & Cap std.
- A wide range of R-Value & tolerance, TCR available.
- Power Rating Able to build up Mega Jouls Energy System.
- Various Models with Voltage Ratings upto 800kV in oil, 300kV at free air.



■ 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 Generator - Multichannel Analyzers - Ozone Generation - 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
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■ DIMENSIONS



Model	Dimensions in millimeters					
	L	B	D	Dia on Corona Ring, 'RC' type	W	T
UT 20	158±1.5	14±1.0	15±1.0	N/A	10±1.5	M4
UT 35	110±1.5	31±1.0	33±0.5	43	18±0.5	M6
UT 50	160±1.5					
UT 70	210±1.5					
UT 100	310±1.5	40±1.0	45±1.0	59	21±0.5	
UT 150	310±1.5					

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

■ CHARACTERISTICS

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	max. ±[0.5%]	5times rated power with applied voltage not to exceed 1.5times Max. continuous operation voltage for 5sec.
Thermal Shock	max. ±[0.5%]	Mil-std-202, Method-107, Cond.C
Load Life	typ. ±[1.0%]	1000 hours at rated power
Moisture Resistance	±[0.5%]	Mil-Std-202, Method 106
Insulation Resistance	10000MΩ Min.	
Termination Cap of Material	Aluminum Alloy, Bronz M4/M6 Cap, & Rug available	
Encapsulation	Epoxy/silicone conformal/ Glass/	

■ GENERAL SPECIFICATIONS

Model	Power Rating at 100℃ [Watts]	Cotinuous Operating Voltage[kV] **	Single Impulse Voltage 1.2/50μ s[kV]	Std. Resistance value [Ω]	Low Extended Resistance Value [Ω]	High Extended Resistance Value [Ω W]
UT 20	20	40	77	1K ~ 1G	20R ~ 0.9K	1.1G ~ 10T
UT 35	35	30	50		10R ~ 0.9K	
UT 50	50	48	77			
UT 70	70	65	100			
UT 100	100	100	150			
UT 150	150	100	150			

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- * 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
- ** V_{dc} , V_{ac}

■ DERATING CURVE

