



UT

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



■ Features

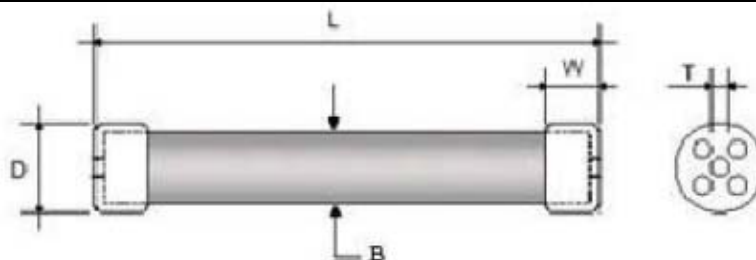
- UT series to meet general set of requirements Ultra high voltage high energy at reasonable prices.
- To be connection on M4, M6.
- Corona Ring & Cap std.
- A wide range of R-Value & tolerance, TCR available.
- Power Rating Able to build up Mega Joules Energy System.
- Various Models with Voltage Ratings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



■ APPLICATION GUIDE ; UT SERIES

<ul style="list-style-type: none"> - 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) 	<ul style="list-style-type: none"> - Corona Generator - Multichannel Analyzers - Ozone Generating - Detectors Nuclear - Gamma Cameras - Electron Beam Testing - Surface Analysis - CRT, X-Ray, MRI - Electrophoresis - Image Intensifier - Surface Analysis 	<ul style="list-style-type: none"> - 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					
UT 150	310±1.5	40±1.0	45±1.0	59	21±0.5	

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°C [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			
UT 50	50	48	77			
UT 70	70	65	100			
UT 100	100	100	150			
UT 150	150	100	150			
UT 150	150	100	150			

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

■ DERATING CURVE

