

HIGH VOLTAGE RESISTORS

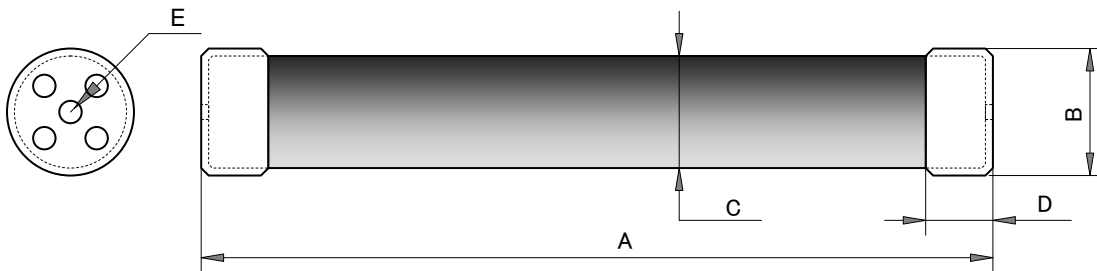
UT



Features and Applications

UT series to meet general set of requirements ultra high voltage and high energy at reasonable price.
 UT presents a wide range of resistance value and tolerance.
 Applications include electron microscope, X-ray analyzer, high power laser oscillator, MRI, plasma generator, electrostatic coating.

Dimensions



Model	Power (W)	**MAX. Operating Voltage (kV)	A (mm)	B (mm)	C (mm)	D (mm)	E	Dia. of Corona Ring, RC (mm)
UT20	20	40	158+/-1.5	15+/-1.0	14+/-1.0	10+/-1.5	M4	N/A
UT35	35	30	110+/-1.5	33+/-0.5	32+/-1.5	18+/-0.5	M6	45
UT50	50	48	160+/-1.5	33+/-0.5	35+/-1.5	18+/-0.5	M6	45
UT70	70	65	210+/-1.5	33+/-0.5	32+/-1.5	18+/-0.5	M6	45
UT100	100	100	310+/-1.5	33+/-0.5	32+/-1.5	18+/-0.5	M6	45
UT150	150	100	310+/-1.5	45+/-1.0	42+/-1.5	21+/-0.5	M6	59

Cap style; ex. UT100-NC shows normal cap type, UT100-RC shows Corona Ring and Cap type.

Tera-ohm available on request.

Glass coating in standard, epoxy coating available.

The voltage limited by power.

Electrical specification on resistance value of 20kΩ - 1000MΩ only.

Model	Single Impulse Voltage 1.2/50us (kV)	Standard Resistance Value (ohm)	Low Extended Resistance Value (ohm)	High Extended Resistance Value (ohm)	Tolerance
UT20	77	1k - 1G	20R - 0.9k	1.1G - 10T	1%, 5%, 10%
UT35	50	1k - 1G	10R - 0.9k	1.1G - 10T	1%, 5%, 10%
UT50	77	1k - 1G	10R - 0.9k	1.1G - 10T	1%, 5%, 10%
UT70	100	1k - 1G	10R - 0.9k	1.1G - 10T	1%, 5%, 10%
UT100	150	1k - 1G	10R - 0.9k	1.1G - 10T	1%, 5%, 10%
UT150	150	1k - 1G	10R - 0.9k	1.1G - 10T	1%, 5%, 10%

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Specifications

	Specifications	Conditions
Resistance Tolerance	1%, 5%, 10%	
TCR	+/-100 ppm/°C (A)	Reference +25 °C / -15 to -105 °C
Overload	Max. 0.50%	5 times rated power with applied voltage not to exceed 1.5 times max. continuous operating voltage for 5 seconds.
Thermal Shock	Max. 0.50%	MIL STD 202, Method 107, condition C
Load Life	1.0% typical	Rated power, 1000hours
Moisture Resistance	Max. 0.50%	MIL STD202, Method 106
Insulation Resistance	10 G Ohm minimum	---
Termination Cap Material	Aluminum alloy, Bronz	M4 / M6 Cap and Rug available
Encapsulation	Epoxy / Silicone Conformal / Glass	

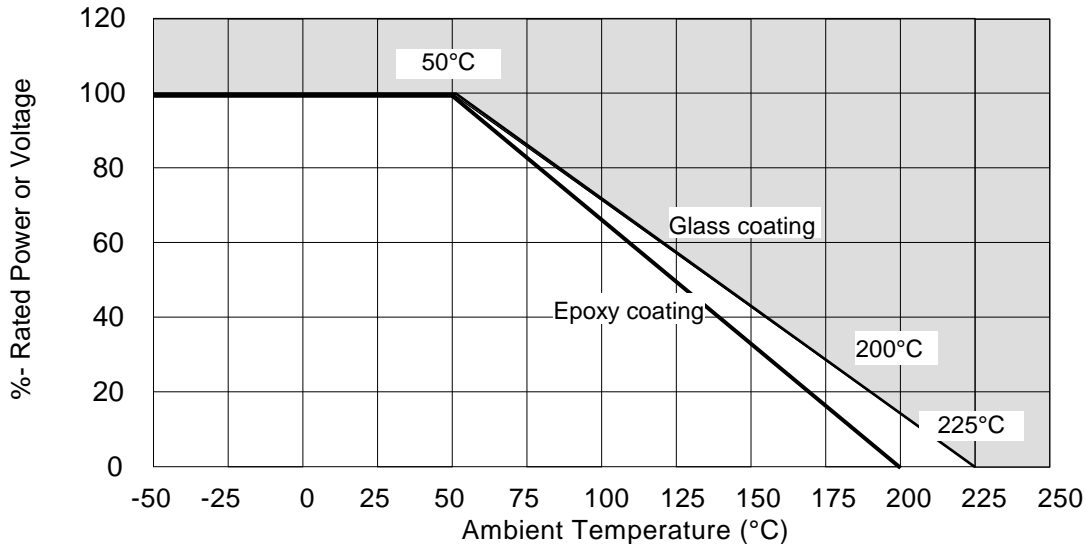
Ordering Information

Type	Cap	TCR	Resistance	Tolerance	Code	Note
UT100	-NC	A	1G0	F	Z00	
UT20	NC	A (+/-100ppm)	E12+	F (1%)	Z00	bulk package
UT35	RC			J (5%)		
UT50				K (10%)		
UT70						
UT100						
UT150						

(*) Recommend resistance value, when request for optional resistance please call factory.

1.0	1.2	1.5	1.8	2.2	2.5	2.7	3.3	3.9	4.7	5.0	5.6	6.8	8.2
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Derating



Applications

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