Cylindrical Ultra High Ohmic Resistors, Thick film, Non-Inductive



Ultra High Ohmic High Voltage High Frequency Resistors $G\Omega$, $T\Omega$

3RLAB offers UR series for ultra high ohmic at reasonable prices Epoxy conformal coatings have very good humidity protection and voltage of coefficient.

UR Precision High OHmic Resistors, the main usage;

UR-series of resistors are desinged to help provide current pulse limiting, detection of trickle current. Resistance tolerance: 0.5%, 1%, 2%, 5%, 10%, 20%

* Resistance rating : $1G\Omega$ to $100T\Omega$

NCR design : Non-contact resistance design between resistives and termination cap, there is 3RLab's unique of conductive pad.



Model Nr.	¹⁾ Wattage	**Max. Continuous Oper. Volt[kV]	Impulse Voltage[kV] 1.2/50uS	[ohm]		SMD	Dimensions in millimeters (inches)		
				Min.	Max.	type	А	В	С
UR1	0.5	2	4	0.7G	50G	N/A	15.0+/-1.5 (0.590)	5.0+/-1.5 (0.197)	0.8
UR1.7	0.7	5	10	0.7G	1T	N/A	25.4+/-1.5 (0.984)	5.0+/-1.5 (0.197)	0.8
UR2	1.0	5	10	0.7G	1T	available	24.0+/-1.5 (0.940)	8.0+/-1.0 (0.314)	1.0
UR2.5	1.5	10	20	1.0G	10T	available	39.0+/-1.5 (1.535)	8.0+/-1.0 (0.314)	1.0
UR3	2.0	12	24	1.0G	10T	available	52.0+/-1.5 (2.047)	8.0+/-1.0 (0.314)	1.0

Custom dimensions & Ohmic Values available upon request ($100T\Omega$ available on UR3 as a custom requirement) Wattage at 25 °C.

Vdc, Vrms.
Single impulse standard.

Temperature	R-Range	1GΩ to 9GΩ	10GΩ to 300GΩ	400GΩ to 1TΩ	1.1TΩ to 10TΩ		ΔR taken at 25°C and 70°C	
Coefficient	[ppm/°C]	200	300	1000	1500			
Voltage	R-Range	$10G\Omega$ to $19G\Omega$	$20G\Omega$ to $100G\Omega$	200G Ω to 1T Ω	10ΤΩ		Measured at 100Vdc and 1000Vdc	
Coefficient	[%/V]	0.002	0.007	0.01	0.05			
Resistance	R-Range	1GΩ	$2G\Omega$ to $10G\Omega$	20GΩ to100GΩ	200GΩ to1TΩ	10ΤΩ	Measured at 1000Vdc Stan- dard	
Tolerance	Std.	+/-1%	+/-2%	+/-5%	+/-10%	+/-20%		
	Custom	+/-0.5%	+/-1%	+/-2%	+/-5%	+/-10%		



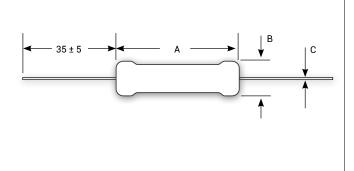


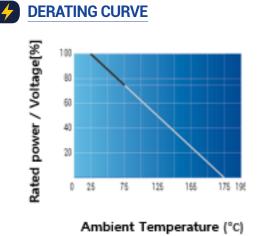
UR

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SPECIFICATIONS

HARSH ENVIRONMENT ENDURANCE (TEMPERATURE)	-55°C to +195°C Max. Resistance breaks down at temperature of 600°C. (for 70 mins)				
THERMAL SHOCK	Mil-Std-202, Method- 107, Cond. C, ΔR 0.50% max.				
LOAD LIFE	1,000 hours at rated power ΔR 0.7% max.				
INSULATION RESISTANCE	10,000MΩ Min.				
TERMINATION CAP OF MATERIAL	Tinned Cap, tinned copper wire				
ENCAPSULATION	Anti-humidity Epoxy conformal coating				
RESISTIVE MATERIAL	Thick Film				
CONTACT METHOD BETWEEN RESISTIVES AND TERMINATION CAPS	Individual Conductive Pad called "NCR" Non-contact resistance				

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

