

Cylindrical Type Ultra Low TCR, VCR
Non-Inductive High Voltage Resistors



Low TCR 2ppm/°C ~ 20ppm/°C Non-Inductive for Ultra Stable HV Calibration Sys.

3RLAB offers LTC series for ultra-stable low TCR, low VCR, especially for high voltage non-inductive divider sets, HV precise measurement system, and is 0~000pcs connection in serial available for HV calibration equipment up to 1000kVp.offers



LTC Precision Low TCR High Voltage Resistors.

Epoxy conformal full coating for excellent humidity protection.
Resistance tolerance: 0.1%, 0.3%, 0.5%

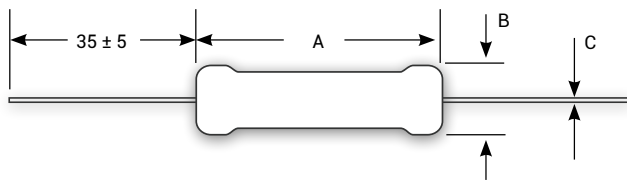
- * Temperature Coefficient of Resistance: 2ppm/°C, 3ppm/°C, 5ppm/°C, 10ppm/°C, 20ppm/°C from -40°C to +85 °C referenced to +25 °C.
- * Load Life Stability of 0.025% typ. & 0.05% max. per 1,000 hours at rated Voltage.
- * Resistance range : 1 MΩ to 200MΩ.
- * Various Models related with Voltage Ratings from 1kV to 15kV each, in free air ≤58% humidity.
- * NCR : Non-contact resistance design between resistive parts and termination.



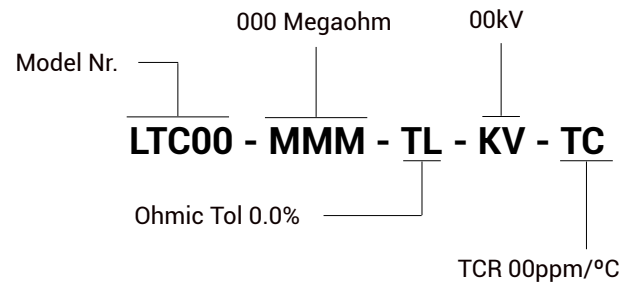
Products Nr. Ordering Info. Model-MΩ-Tol-TC	Megohm	Max. Operating Voltage kVdc, kVp-p	1)In case of stocked orderable TCR +/- ppm/°C	Normally Ordering TCR +/- ppm/°C	Max. Ambient Operating Temp [°C]	Dimensions in millimeters (inches)		
						A	B(dia)	C
LTC 6-001	1	0.8	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC 6-002	2	1.2	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC 6-005	5	2.0	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC 6-010	10	2.5	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC 6-020	20	3.0	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC 6-050	50	5.0	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC 6-100	100	6.0	2, 3, 5	10, 20	85	39+/-1.5 (1.535)	8+/-1.0	1
LTC10-001	1	1.0	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-002	2	1.3	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-005	5	2.2	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-010	10	3.0	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-020	20	3.5	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-050	50	7.0	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-100	100	10.0	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC10-150	150	10.0	2, 3, 5	10, 20	85	52+/-1.5 (2.047)	8+/-1.0	1
LTC15-002	2	1.7	2, 3, 5	10, 20	85	76+/-1.5 (2.992)	8+/-1.0	1
LTC15-010	10	3.5	2, 3, 5	10, 20	85	76+/-1.5 (2.992)	8+/-1.0	1
LTC15-020	20	4.5	2, 3, 5	10, 20	85	76+/-1.5 (2.992)	8+/-1.0	1
LTC15-050	50	8.0	2, 3, 5	10, 20	85	76+/-1.5 (2.992)	8+/-1.0	1
LTC15-100	100	12.0	2, 3, 5	10, 20	85	76+/-1.5 (2.992)	8+/-1.0	1
LTC15-200	200	15.0	2, 3, 5	10, 20	85	76+/-1.5 (2.992)	8+/-1.0	1

1) over 1000pcs/each R-Value/Lot shipment : 3ppm 5ppm might be available, but please contact at 3RLab first before placing orders.

DIMENSIONS [mm]



ORDERING INFORMATION



SPECIFICATIONS

RESISTANCE TOLERANCE	+/-0.1%, +/-0.3%, +/-0.5% measured in 25°C and less than 50% humidity shieldingroom at 100Vdc, 500Vdc
STORAGE TEMPERATURE	-50°C to +105°C
TEMPERATURE COEFFICIENT OF RESISTANCE	2ppm/°C, 3ppm/°C, 5ppm/°C, 10ppm/°C, 20ppm/°C referenced to 25°C, ΔR taken at -40°C and +85°C
OVERLOAD/VOLTAGE	with applied voltage 1.5 times of max continuous operating voltage for 5 seconds ΔR 0.05% max.
THERMAL SHOCK	Mil-Std-202, Method-106, Cond. A, ΔR 0.05% max.
LOAD LIFE	1,000 hours at rated Voltage ΔR 0.025% typ. and ΔR 0.05% max.
MOISTURE RESISTANCE	Mil-Std-202, Method 106, ΔR 0.025% max.
LEAD MATERIAL	Tin-plated copper solderable semi-flexible axial wire
INSULATION RESISTANCE	10,000MΩ Min.
TERMINATION CAP OF MATERIAL	Plated Cap
ENCAPSULATION	Epoxy conformal coating
RESISTIVE MATERIAL	3RLab's LT Film system
CONTACT METHOD BETWEEN RESISTIVES AND TERMINATION CAPS	Individual Conductive Pads called "NCR" Non-contact resistance

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