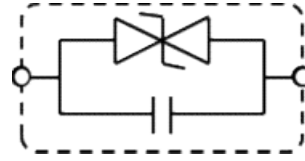


Multilayer Chip Varistor : AVRL161A1R1NTA

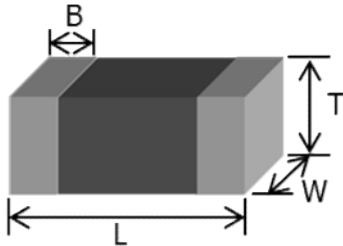
Features

- Commercial grade
- Size : EIA0603 (1.6x0.8mm)
- Excellent ESD clamp characteristics
- High ESD durability : IEC61000-4-2, Level 4
- Operating temperature range : -40°C ~ 85°C

Equivalent Circuit

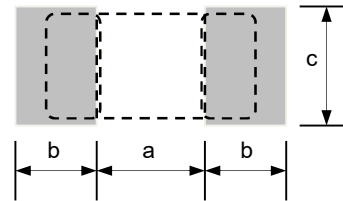


Shapes & Dimensions



Unit / mm				
EIA	L	W	T	B
0603	1.6±0.1	0.8±0.1	0.8±0.1	0.2 Min.

Recommended PCB Pattern



Unit / mm			
EIA	a	b	c
0603	0.6 to 0.8	0.6 to 0.8	0.6 to 0.8

Product Identification

AVRL 16 1A 1R1 N T A
(1) (2) (3) (4) (5) (6) (7)

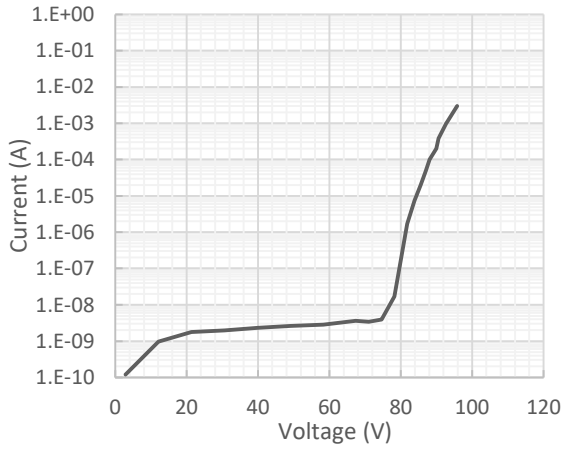
(1)	Series name / AVRL Series
(2)	Dimension / 16:1.6x0.8(mm)
(3)	Maximum continuous voltage / 1A : 10(V)
(4)	Capacitance / 1R1 : 1.1(pF)
(5)	Capacitance tolerance / N : ±0.3(pF)
(6)	Packaging scheme / T : Taping
(7)	TDK internal code

Electrical Characteristics

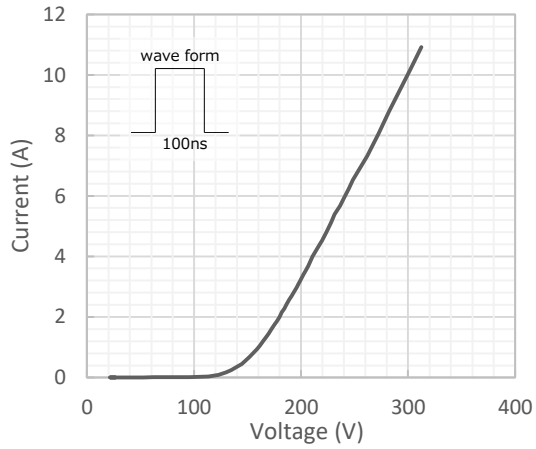
TDK Product Name	Varistor voltage (Breakdown voltage)	Rated voltage	Capacitance
		DC Max.	1MHz, 1Vrms
	V1mA (V)	Vdc (V)	C (pF)
AVRL161A1R1NTA	90	10	1.1(0.8~1.4)

Multilayer Chip Varistor : AVRL161A1R1NTA

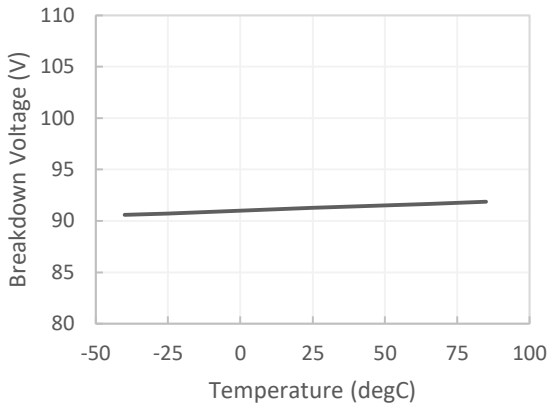
Current - Voltage



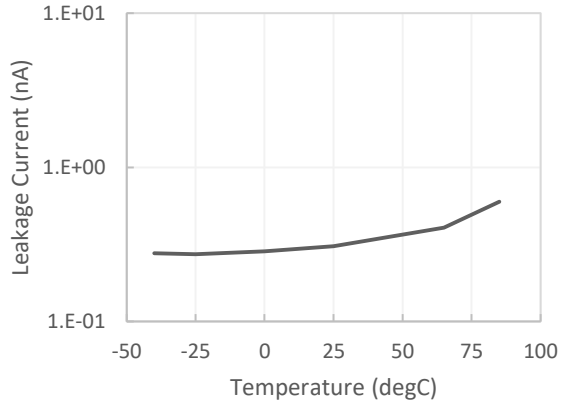
Current - Voltage (TLP)



Breakdown Voltage - Temp.

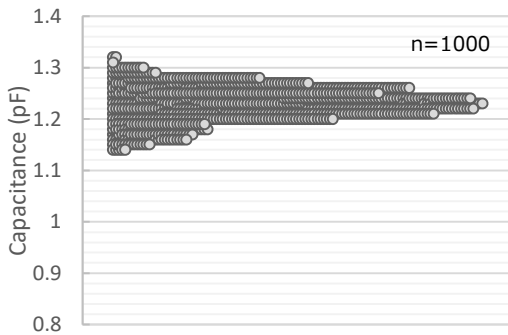


Leakage current - Temp.

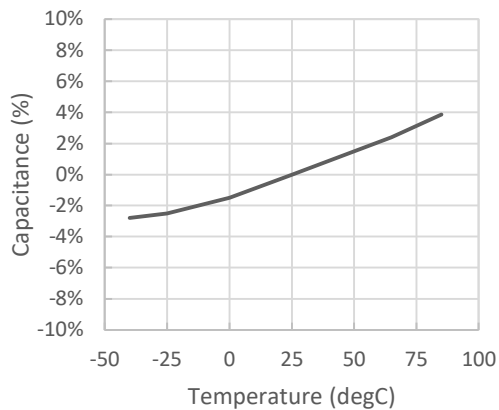


※ Voltage : 10 V

Capacitance Dispersion ※1MHz, 1Vrms



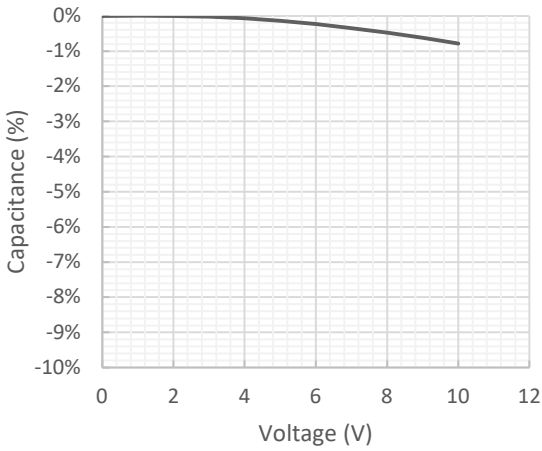
Capacitance - Temp. ※1MHz, 1Vrms



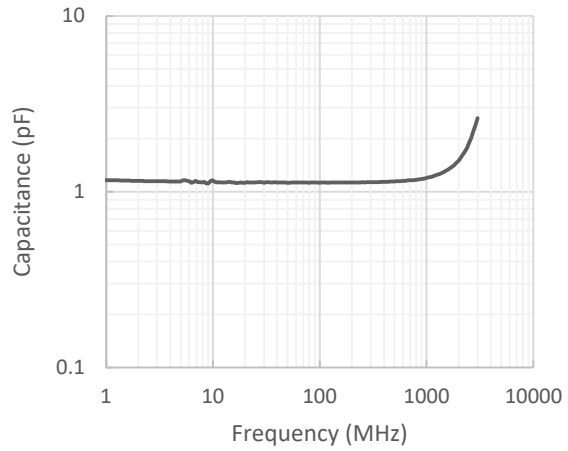
Multilayer Chip Varistor : AVRL161A1R1NTA

DC bias

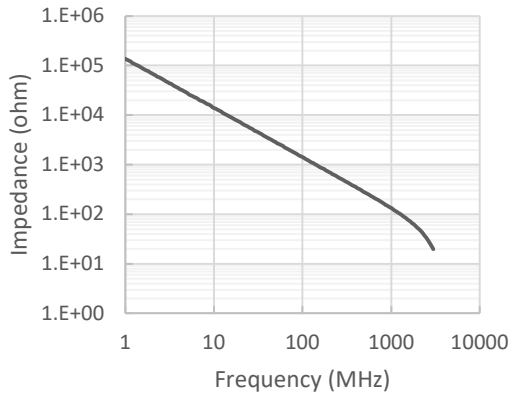
※1MHz, 1Vrms



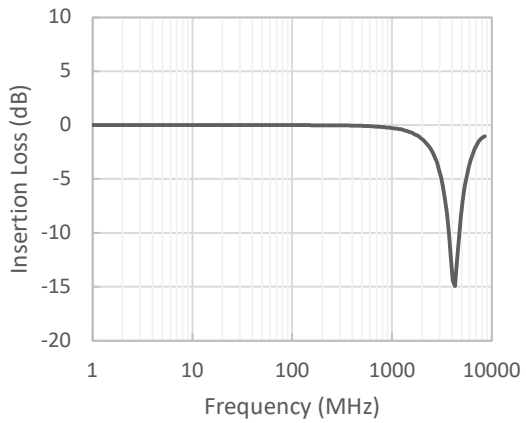
Capacitance - Freq.



Impedance - Freq.

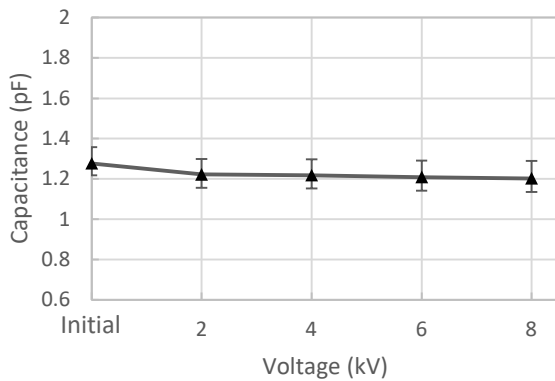


Insertion Loss



ESD Discharge

▶ 150pF/330ohm, ~±8kV, 10times



※Criteria : Capacitance \leq 1.8 pF