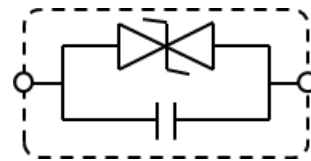


Multilayer Chip Varistor : AVR0603C080MT101N

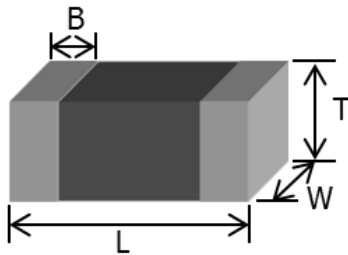
Features

- Commercial grade
- Size : EIA0201 (0.6x0.3mm)
- Excellent ESD clamp characteristics
- High ESD durability : IEC61000-4-2, Level 4
- Operating temperature range : -40°C ~ 85°C

Equivalent Circuit

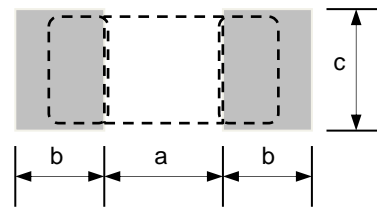


Shapes & Dimensions



| Unit / mm | | | | |
|-----------|----------|----------|----------|----------|
| EIA | L | W | T | B |
| 0201 | 0.6±0.03 | 0.3±0.03 | 0.3±0.03 | 0.1 Min. |

Recommended PCB Pattern



| Unit / mm | | | |
|-----------|--------------|------------|--------------|
| EIA | a | b | c |
| 0201 | 0.25 to 0.35 | 0.2 to 0.3 | 0.25 to 0.35 |

Product Identification

AVRM **0603** **C** **080** **M** **T** **101** **N**
 (1) (2) (3) (4) (5) (6) (7) (8)

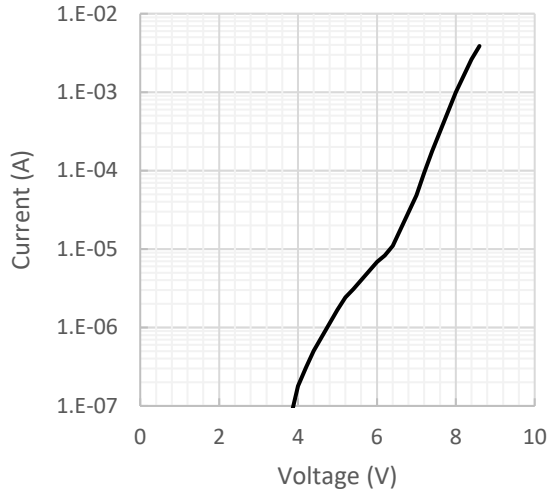
| | |
|-----|----------------------------------------------|
| (1) | Series name / AVR0603 |
| (2) | Dimension / 0603:0.6x0.3(mm) |
| (3) | Structure |
| (4) | Varistor voltage / 080:8x10 ⁰ (V) |
| (5) | Varistor voltage tolerance / M : ±20(%) |
| (6) | Packaging scheme / T : Taping |
| (7) | Capacitance / 101:10x10 ¹ (pF) |
| (8) | Capacitance tolerance / N : ±30(%) |

Electrical Characteristics

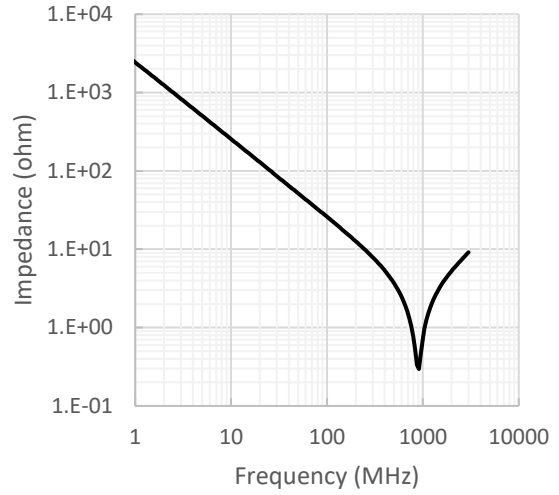
| TDK Product Name | Varistor voltage (Breakdown voltage) | Rated voltage | Clamping voltage | | Energy | Peak current | Capacitance |
|--------------------|-----------------------------------------|------------------|------------------|-----|-----------|-----------------|-------------|
| | DC1mA | DC | 8/20µs | | 10/1000µs | 8/20µs | 1kHz, 1Vrms |
| | | Max. | Typ. | | Max. | Max. | Typ. |
| | V1mA | Vdc | Vcl | Icl | E | Ip | C |
| | (V) | (V) | (V) | (A) | (Joule) | (A) | (pF) |
| AVRM0603C080MT101N | 8(6.4~9.6) | 5.5 | 17 | 1 | 0.01 | 4 | 100(70~130) |

Multilayer Chip Varistor : AVR0603C080MT101N

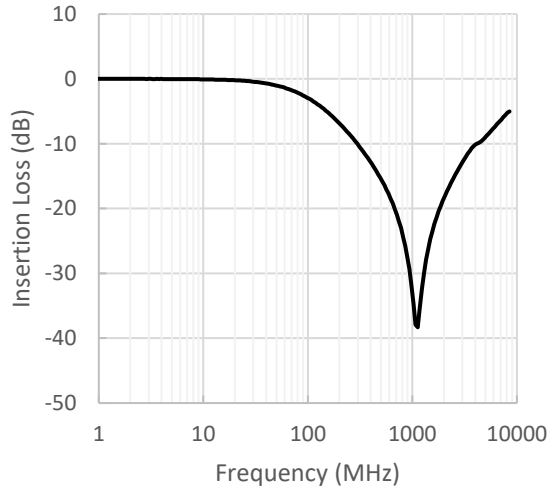
Current-Voltage Curve



Impedance-Freq.



Insertion Loss



Capacitance-Freq.

