

# MULTILAYER CHIP VARISTOR

## 0201 Ultra Low Capacitance Type

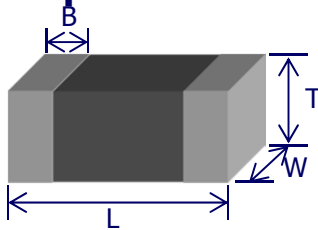
### Features

- 0201(0.6x0.3mm) Chip Size.
- Ultra Low Capacitance for High Speed Signal Line. (0.5pF)
- High ESD Robustness Characteristics, and Excellent ESD Clamping Characteristics.

### Applications

- ESD Protection for Signal Line(HDMI, USB, SATA etc.)
- Filter Circuit for EMI Measures
- Cellular Phone, DVC, DSC, Note PC, Portable Music Player, PDA etc.

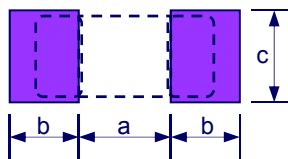
### Shapes & Dimensions



| SIZE      | L        | W        | T        | B        |
|-----------|----------|----------|----------|----------|
| 0.6x0.3mm | 0.6±0.03 | 0.3±0.03 | 0.3±0.03 | 0.1 Min. |

Unit / mm

### Recommended PCB Pattern



| SIZE      | a            | b          | c            |
|-----------|--------------|------------|--------------|
| 0.6x0.3mm | 0.25 to 0.35 | 0.2 to 0.3 | 0.25 to 0.35 |

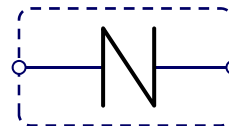
Unit / mm

### Naming Conventions

| AVRL | 06  | 1F  | R50 | E   | T   | A   |
|------|-----|-----|-----|-----|-----|-----|
| (1)  | (2) | (3) | (4) | (5) | (6) | (7) |

|     |                                      |
|-----|--------------------------------------|
| (1) | Series name / AVRL                   |
| (2) | Dimension / 06:0.6x0.3(mm)           |
| (3) | Rated voltage / 1F:30(V)             |
| (4) | Capacitance / R50:0.50(pF)           |
| (5) | Capacitance tolerance / E:±0.2(pF)   |
| (6) | Packaging scheme / T:Taping          |
| (7) | Varistor Voltage & TDK Internal Code |

### Circuit Symbol



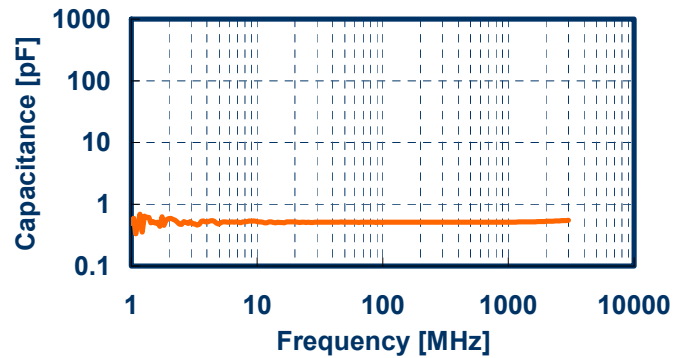
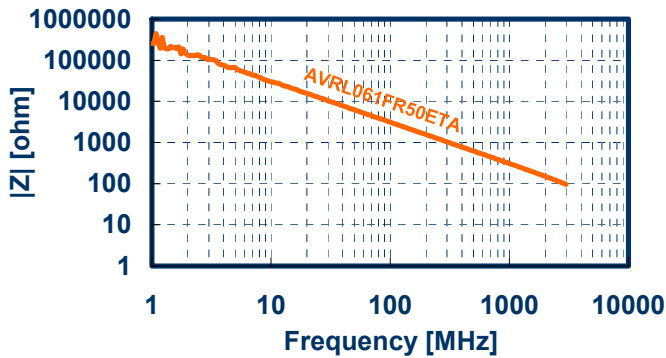
### Electrical Characteristics

| Part No.       | Rated Voltage<br>(Vdc)<br>(V) | Capacitance<br>(C1MHz)<br>(pF) | Varistor Voltage<br>(V1mA)<br>(V) | ESD<br>IEC61000-4-2,<br>Contact |
|----------------|-------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| AVRL061FR50ETA | 30 Max.                       | 0.5 (0.3 ~ 0.7)                | 140 Typ.                          | ±4kV                            |

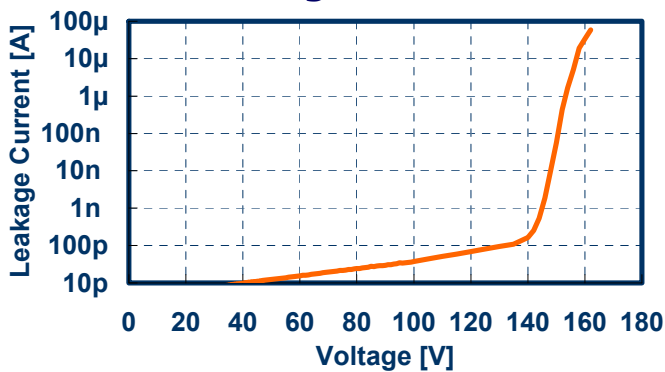
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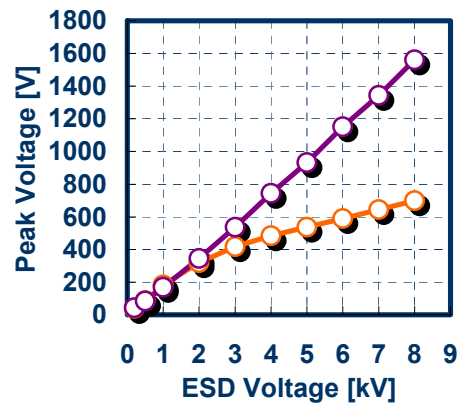
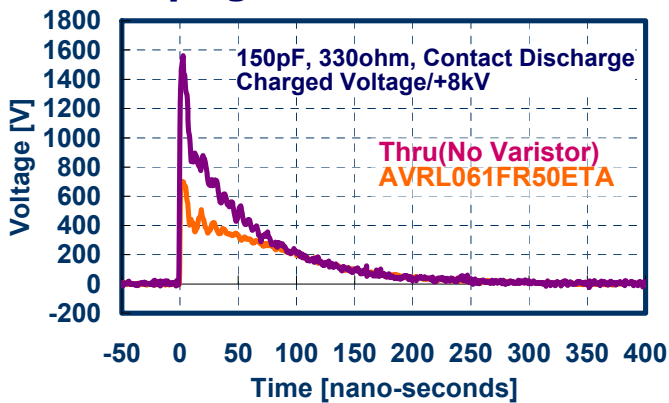
### |Z|, Cp vs. Frequency Characteristics



### Current vs. Voltage Curve



### ESD Clamping Characteristics



## Looking for pricing, stock, or lifecycle information?

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- ⊖ [View AVR061FR50ETA](#) on WIN SOURCE
- ⊖ [TDK Corporation](#) Information

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