

INTRODUCTION

The MLV Series, designed for surface mount applications, are small multilayer varistors. They are available in standard EIA sizes of 0402, 0603, 0805, 1206, 1210, 1812 and 2220 packages. The MLV Series have 5 different sub-series:

EV Series - This is our lowest capacitance MLV series. Typically these are used in ESD and data line protection.

SV Series - This is our standard MLV series. They provide good high current pulse protection with moderate capacitance.

TV Series - This is our low capacitance MLV series, similar to the SV Series. This series should be selected when the SV series capacitance is too high.

PV Series - This is our power MLV series. They can protect against higher surge currents than the SV Series.

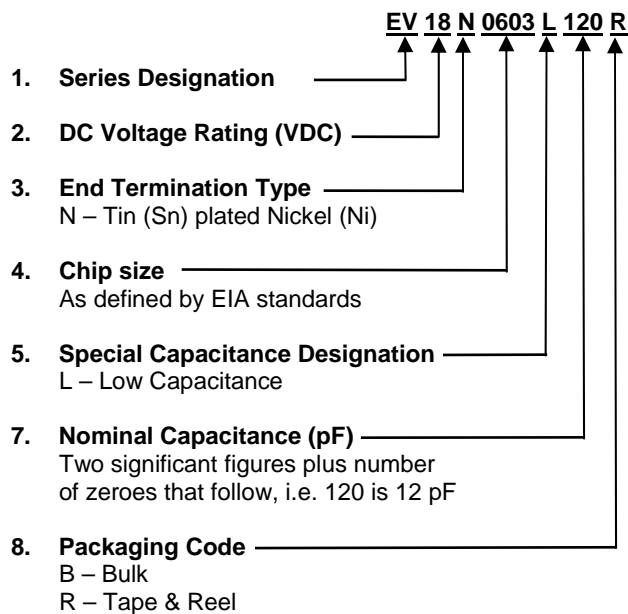
AV Series - This is our array series. They are designed for multiple I/O connections in a single package.

The MLV Series of varistors are designed to provide transient, surge, and ESD (Electrostatic Discharge) protection for a wide variety of applications.

STYLE DESIGNATION

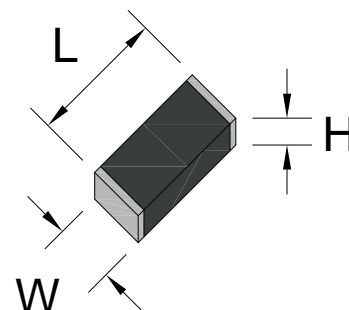
The Maida Style Number is the typical means to identify our components when ordered. The style number identifies several parameters that are important for the characteristics of the device. An alternative ordering method, if known, is by our Item Number.

The following example is the standard part numbering system when ordering our MLV Series components by the Maida Style Number:



STANDARD MARKING

The MLV Series currently do not have markings.



EV SERIES for ESD PROTECTION

Level 4 ESD protection to 8kV direct, 15kV air discharge

| Maida Style Number | Recognitions To Safety Agency Standards | | | | | | Nominal Size | Minimum Marking | Maximum Ratings | | | | | | Electrical Characteristics | | | | |
|--------------------|---|--|--|--|--|--|--------------|-----------------|-----------------|------|---------------------|------------------|---------------------------|-----|----------------------------|------|--------------------------------------|----|---------------|
| | | | | | | | | | Continuous | | Transient | | | | Varistor Voltage @1 mA DC | | Max Clamping Voltage (@Test Current) | | Typical Cap. |
| | | | | | | | | | Applied Voltage | | Energy | | Peak Current | | | | | | |
| | | | | | | | | | | | 10 x 1000 μ sec | 8 x 20 μ sec | 8 x 20 μ sec # Pulses | | Vmin | Vmax | (8 x 20 μ sec) | | 1 V rms @1kHz |
| | | | | | | | | | (AC) | (DC) | (J) | (J) | (A) | (A) | | | | | |
| EV5N0402L1R0 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 1 |
| EV5N0402L3R0 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 3 |
| EV5N0402L5R0 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 5 |
| EV5N0402L100 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 10 |
| EV5N0402L150 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 15 |
| EV5N0402L220 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 22 |
| EV5N0402L330 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 33 |
| EV5N0402L470 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 47 |
| EV5N0402L680 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 68 |
| EV5N0402L820 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 82 |
| EV5N0402L101 | | | | | | | 0402 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 100 |
| EV9N0402L220 | | | | | | | 0402 | N/A | 6.5 | 9 | N/A | N/A | N/A | N/A | 11 | 17 | 35 | 10 | 22 |
| EV18N0402L5R0 | | | | | | | 0402 | N/A | 14 | 18 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 5 |
| EV18N0402L100 | | | | | | | 0402 | N/A | 14 | 18 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 10 |
| EV18N0402L220 | | | | | | | 0402 | N/A | 14 | 18 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 22 |
| EV42N0402L3R0 | | | | | | | 0402 | N/A | 38 | 42 | N/A | N/A | N/A | N/A | 46 | 75 | 135 | 10 | 3 |
| EV5N0603L1R0 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 1 |
| EV5N0603L3R0 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 3 |
| EV5N0603L5R0 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 5 |
| EV5N0603L100 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 10 |
| EV5N0603L150 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 15 |
| EV5N0603L220 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 22 |
| EV5N0603L330 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 33 |
| EV5N0603L470 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 47 |
| EV5N0603L680 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 68 |
| EV5N0603L820 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 82 |
| EV5N0603L101 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 100 |
| EV5N0603L151 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 150 |
| EV5N0603L221 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 220 |
| EV5N0603L331 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 330 |
| EV5N0603L471 | | | | | | | 0603 | N/A | 4 | 5 | N/A | N/A | N/A | N/A | 7.6 | 12 | 25 | 10 | 470 |
| EV9N0603L5R0 | | | | | | | 0603 | N/A | 6.5 | 9 | N/A | N/A | N/A | N/A | 11 | 17 | 35 | 10 | 5 |
| EV9N0603L220 | | | | | | | 0603 | N/A | 6.5 | 9 | N/A | N/A | N/A | N/A | 11 | 17 | 35 | 10 | 22 |
| EV18N0603L5R0 | | | | | | | 0603 | N/A | 14 | 18 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 10 |
| EV18N0603L120 | | | | | | | 0603 | N/A | 14 | 18 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 12 |
| EV18N0603L220 | | | | | | | 0603 | N/A | 14 | 18 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 22 |
| EV26N0603L220 | | | | | | | 0603 | N/A | 20 | 26 | N/A | N/A | N/A | N/A | 28 | 35 | 58 | 10 | 22 |
| EV30N0603L040 | | | | | | | 0603 | N/A | 25 | 30 | N/A | N/A | N/A | N/A | 38 | 46 | 65 | 10 | 40 |
| EV42N0603L150 | | | | | | | 0603 | N/A | 38 | 42 | N/A | N/A | N/A | N/A | 46 | 60 | 110 | 10 | 15 |

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

A = UL1449 D = VDE

B = cUL E =

C = CSA F =

EV SERIES for ESD PROTECTION

Level 4 ESD protection to 8kV direct, 15kV air discharge

| Maida Style Number | Length (L) (in) | Length Tolerance (L) (in) | Width (W) (in) | Width Tolerance (W) (in) | MAX. Height (H) (in) | Land Pad Length (PL) (in) | Land Pad Width (PW) (in) | Land Pad Thickness (PT) (in) | Typical Wire Diameter (d) (in) |
|--------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------------|
| EV5N0402L1R0 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L3R0 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L5R0 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L100 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L150 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L220 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L330 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L470 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L680 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L820 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0402L101 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV9N0402L220 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV18N0402L5R0 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV18N0402L100 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV18N0402L220 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV42N0402L3R0 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| EV5N0603L1R0 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L3R0 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L5R0 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L100 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L150 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L220 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L330 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L470 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L680 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L820 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L101 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L151 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L221 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L331 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV5N0603L471 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV9N0603L5R0 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV9N0603L220 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV18N0603L5R0 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV18N0603L120 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV18N0603L220 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV26N0603L220 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV30N0603L040 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| EV42N0603L150 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |

SV SERIES

Standard MLV

| Maida Style Number | Recognitions To Safety Agency Standards | | | | | | Nominal Size | Minimum Marking | Maximum Ratings | | | | | | Electrical Characteristics | | | | |
|--------------------|---|--|--|--|--|--|--------------|-----------------|-----------------|------|------------------------------------|---------------------------------|--|-----|----------------------------|------|--------------------------------------|---------------|--------------|
| | | | | | | | | | Continuous | | Transient | | | | Varistor Voltage @1 mA DC | | Max Clamping Voltage (@Test Current) | | Typical Cap. |
| | | | | | | | | | Applied Voltage | | Energy | | Peak Current | | | | | | |
| | | | | | | | | | | | 10 x 1000 $\mu\text{J}/\text{sec}$ | 8 x 20 $\mu\text{J}/\text{sec}$ | 8 x 20 $\mu\text{J}/\text{sec}$ # Pulses | | Vmin | Vmax | (8 x 20 $\mu\text{J}/\text{sec}$) | 1 V rms @1kHz | |
| | | | | | | | | | (AC) | (DC) | (J) | (J) | 1 | 2 | | | | | (V) |
| SV5R5N0402271 | | | | | | | 0402 | N/A | 4 | 5.5 | 0.1 | 0.1 | 20 | 20 | 6.9 | 9.3 | 19 | 1 | 270 |
| SV9N0402131 | | | | | | | 0402 | N/A | 6.5 | 9 | 0.1 | 0.1 | 20 | 20 | 11.3 | 15.2 | 32 | 1 | 130 |
| SV11N0402121 | | | | | | | 0402 | N/A | 8 | 11 | 0.1 | 0.1 | 20 | 20 | 12.7 | 17.3 | 33 | 1 | 120 |
| SV11N0402400 | | | | | | | 0402 | N/A | 8 | 11 | 0.1 | 0.1 | 10 | 10 | 12.7 | 17.3 | 33 | 1 | 40 |
| SV14N0603900 | | | | | | | 0402 | N/A | 11 | 14 | 0.1 | 0.1 | 20 | 20 | 16.2 | 19.8 | 38 | 1 | 90 |
| SV14N0603330 | | | | | | | 0402 | N/A | 11 | 14 | 0.1 | 0.1 | 10 | 10 | 16.2 | 19.8 | 42 | 1 | 33 |
| SV18N0603850 | | | | | | | 0402 | N/A | 14 | 18 | 0.1 | 0.1 | 20 | 20 | 19.8 | 24.2 | 45 | 1 | 85 |
| SV3R5N0603181 | | | | | | | 0603 | N/A | 2.5 | 3.3 | 0.1 | 0.1 | 20 | 20 | 4.4 | 6.6 | 13 | 1 | 180 |
| SV5R5N0603271 | | | | | | | 0603 | N/A | 4 | 5.5 | 0.1 | 0.1 | 30 | 30 | 6.9 | 9.3 | 16 | 1 | 270 |
| SV8N0603141 | | | | | | | 0603 | N/A | 6 | 8 | 0.1 | 0.1 | 30 | 30 | 8.8 | 13.2 | 29 | 1 | 140 |
| SV9N0603211 | | | | | | | 0603 | N/A | 7 | 9 | 0.1 | 0.1 | 30 | 30 | 10 | 15 | 27 | 1 | 210 |
| SV11N0603201 | | | | | | | 0603 | N/A | 8 | 11 | 0.1 | 0.1 | 30 | 30 | 13 | 18 | 27 | 1 | 200 |
| SV14N0603101 | | | | | | | 0603 | N/A | 11 | 14 | 0.1 | 0.1 | 30 | 30 | 16.2 | 19.8 | 35 | 1 | 100 |
| SV14N0603151 | | | | | | | 0603 | N/A | 11 | 14 | 0.1 | 0.1 | 30 | 30 | 16.2 | 19.8 | 35 | 1 | 150 |
| SV18N0603131 | | | | | | | 0603 | N/A | 14 | 18 | 0.1 | 0.1 | 30 | 30 | 19.8 | 24.2 | 40 | 1 | 130 |
| SV26N0603101 | | | | | | | 0603 | N/A | 20 | 26 | 0.1 | 0.1 | 30 | 30 | 27.9 | 34.1 | 58 | 1 | 100 |
| SV30N0603040 | | | | | | | 0603 | N/A | 25 | 30 | 0.1 | 0.1 | 30 | 30 | 38 | 46 | 65 | 1 | 40 |
| SV39N0603030 | | | | | | | 0603 | N/A | 30 | 39 | 0.1 | 0.1 | 30 | 30 | 42 | 52 | 80 | 1 | 30 |
| SV5R5N0805102 | | | | | | | 0805 | N/A | 4 | 5.5 | 0.3 | 0.3 | 120 | 120 | 6.9 | 9.3 | 15 | 2 | 1000 |
| SV9N0805641 | | | | | | | 0805 | N/A | 6.5 | 9 | 0.3 | 0.3 | 120 | 120 | 11.3 | 15.2 | 24 | 2 | 640 |
| SV11N0805581 | | | | | | | 0805 | N/A | 8 | 11 | 0.3 | 0.3 | 120 | 120 | 13 | 18 | 27 | 2 | 580 |
| SV14N0805501 | | | | | | | 0805 | N/A | 10 | 14 | 0.3 | 0.3 | 120 | 120 | 17.5 | 23.7 | 30 | 2 | 500 |
| SV18N0805401 | | | | | | | 0805 | N/A | 14 | 18 | 0.3 | 0.3 | 120 | 120 | 23 | 30 | 40 | 2 | 400 |
| SV22N0805361 | | | | | | | 0805 | N/A | 17 | 22 | 0.3 | 0.3 | 120 | 120 | 28 | 34 | 50 | 2 | 360 |
| SV26N0805281 | | | | | | | 0805 | N/A | 20 | 26 | 0.3 | 0.3 | 120 | 120 | 33 | 40 | 58 | 2 | 280 |
| SV30N0805201 | | | | | | | 0805 | N/A | 25 | 30 | 0.3 | 0.3 | 120 | 120 | 38 | 46 | 65 | 2 | 200 |
| SV39N0805151 | | | | | | | 0805 | N/A | 30 | 39 | 0.3 | 0.3 | 120 | 120 | 42 | 52 | 80 | 2 | 150 |
| SV5R5N1206312 | | | | | | | 1206 | N/A | 4 | 5.5 | 0.4 | 0.4 | 100 | 100 | 7.5 | 10.5 | 20 | 10 | 3100 |
| SV9N1206222 | | | | | | | 1206 | N/A | 6.5 | 9 | 0.4 | 0.4 | 150 | 150 | 11.3 | 15.2 | 25 | 10 | 2200 |
| SV14N1206172 | | | | | | | 1206 | N/A | 10 | 14 | 0.4 | 0.4 | 150 | 150 | 17.5 | 23.7 | 30 | 10 | 1700 |
| SV18N1206102 | | | | | | | 1206 | N/A | 14 | 18 | 0.4 | 0.4 | 150 | 150 | 23 | 30 | 40 | 10 | 1000 |
| SV26N1206941 | | | | | | | 1206 | N/A | 20 | 26 | 0.4 | 0.4 | 150 | 150 | 33 | 40 | 58 | 10 | 940 |
| SV30N1206891 | | | | | | | 1206 | N/A | 25 | 30 | 0.4 | 0.4 | 150 | 150 | 38 | 46 | 66 | 10 | 890 |
| SV42N1206641 | | | | | | | 1206 | N/A | 30 | 42 | 0.4 | 0.4 | 150 | 150 | 46 | 60 | 180 | 10 | 640 |
| SV48N1206601 | | | | | | | 1206 | N/A | 40 | 48 | 0.4 | 0.4 | 150 | 150 | 55 | 66 | 100 | 10 | 600 |
| SV56N1206181 | | | | | | | 1206 | N/A | 40 | 56 | 0.4 | 0.4 | 150 | 150 | 63 | 77 | 120 | 10 | 180 |
| SV18N1210172 | | | | | | | 1210 | N/A | 14 | 18 | 0.9 | 0.9 | 220 | 220 | 23 | 30 | 40 | 10 | 1700 |
| SV26N1210122 | | | | | | | 1210 | N/A | 20 | 26 | 0.9 | 0.9 | 220 | 220 | 33 | 40 | 58 | 10 | 1200 |
| SV30N1210901 | | | | | | | 1210 | N/A | 25 | 30 | 0.9 | 0.9 | 220 | 220 | 38 | 46 | 66 | 10 | 900 |
| SV38N1210781 | | | | | | | 1210 | N/A | 30 | 38 | 0.9 | 0.9 | 250 | 250 | 42.3 | 51.7 | 77 | 10 | 780 |
| SV48N1210451 | | | | | | | 1210 | N/A | 40 | 48 | 0.9 | 0.9 | 250 | 250 | 55 | 66 | 100 | 10 | 450 |
| SV60N1210601 | | | | | | | 1210 | N/A | 50 | 60 | 0.9 | 0.9 | 250 | 250 | 69 | 83 | 120 | 10 | 600 |

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

A = UL1449 D = VDE

B = cUL E =

C = CSA F =

SV SERIES
Standard MLV

| Maida Style Number | Length (L) (in) | Length Tolerance (L) (in) | Width (W) (in) | Width Tolerance (W) (in) | MAX. Height (H) (in) | Land Pad Length (PL) (in) | Land Pad Width (PW) (in) | Land Pad Thickness (PT) (in) | Typical Wire Diameter (d) (in) |
|--------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------------|
| SV5R5N0402271 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV9N0402131 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV11N0402121 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV11N0402400 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV14N0603900 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV14N0603330 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV18N0603850 | 0.039 | 0.004 | 0.020 | 0.004 | 0.020 | 0.088 | 0.028 | 0.035 | N/A |
| SV3R5N0603181 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV5R5N0603271 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV8N0603141 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV9N0603211 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV11N0603201 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV14N0603101 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV14N0603151 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV18N0603131 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV26N0603101 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV30N0603040 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV39N0603030 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| SV5R5N0805102 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV9N0805641 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV11N0805581 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV14N0805501 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV18N0805401 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV22N0805361 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV26N0805281 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV30N0805201 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV39N0805151 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| SV5R5N1206312 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV9N1206222 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV14N1206172 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV18N1206102 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV26N1206941 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV30N1206891 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV42N1206641 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV48N1206601 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV56N1206181 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| SV18N1210172 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| SV26N1210122 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| SV30N1210901 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| SV38N1210781 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| SV48N1210451 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| SV60N1210601 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |

TV SERIES

Low Capacitance MLV

| Maida Style Number | Recognitions To Safety Agency Standards | | | | | | Nominal Size | Minimum Marking | Maximum Ratings | | | | | | Electrical Characteristics | | | | |
|--------------------|---|--|--|--|--|--|--------------|-----------------|-----------------|------|---------------------------|------------------------|---------------------------------|-----|----------------------------|------|--------------------------------------|---------------|--------------|
| | | | | | | | | | Continuous | | Transient | | | | Varistor Voltage @1 mA DC | | Max Clamping Voltage (@Test Current) | | Typical Cap. |
| | | | | | | | | | Applied Voltage | | Energy | | Peak Current | | | | | | |
| | | | | | | | | | | | 10 x 1000 μsec | 8 x 20 μsec | 8 x 20 μsec # Pulses | | Vmin | Vmax | (8 x 20 μsec) | 1 V rms @1kHz | |
| | | | | | | | | | (AC) | (DC) | (J) | (J) | (A) | (A) | | | | | (V) |
| TV5R5N0603 | | | | | | | 0603 | N/A | 4 | 5.5 | 0.05 | 0.05 | 20 | 20 | 6.9 | 9.3 | 20 | 1 | 210 |
| TV9N0603 | | | | | | | 0603 | N/A | 6.5 | 9 | 0.05 | 0.05 | 20 | 20 | 11 | 15 | 25 | 1 | 180 |
| TV11N0603 | | | | | | | 0603 | N/A | 8 | 11 | 0.05 | 0.05 | 20 | 20 | 13 | 17 | 30 | 1 | 170 |
| TV14N0603 | | | | | | | 0603 | N/A | 10 | 14 | 0.05 | 0.05 | 25 | 25 | 16.5 | 20.5 | 35 | 1 | 150 |
| TV18N0603 | | | | | | | 0603 | N/A | 14 | 18 | 0.05 | 0.05 | 25 | 25 | 22 | 27 | 45 | 1 | 120 |
| TV22N0603 | | | | | | | 0603 | N/A | 17 | 22 | 0.05 | 0.05 | 30 | 30 | 26 | 32 | 50 | 1 | 90 |
| TV26N0603 | | | | | | | 0603 | N/A | 20 | 26 | 0.05 | 0.05 | 30 | 30 | 32 | 38 | 60 | 1 | 60 |
| TV5R5N0805 | | | | | | | 0805 | N/A | 4 | 5.5 | 0.1 | 0.1 | 40 | 40 | 6.9 | 9.3 | 15 | 2 | 510 |
| TV9N0805 | | | | | | | 0805 | N/A | 6.5 | 9 | 0.15 | 0.15 | 40 | 40 | 11.3 | 15.2 | 20 | 2 | 320 |
| TV11N0805 | | | | | | | 0805 | N/A | 8 | 11 | 0.15 | 0.15 | 40 | 40 | 13 | 17 | 25 | 2 | 290 |
| TV14N0805 | | | | | | | 0805 | N/A | 10 | 14 | 0.15 | 0.15 | 40 | 40 | 17.5 | 23.7 | 30 | 2 | 250 |
| TV18N0805 | | | | | | | 0805 | N/A | 14 | 18 | 0.15 | 0.15 | 40 | 40 | 23 | 30 | 40 | 2 | 200 |
| TV22N0805 | | | | | | | 0805 | N/A | 17 | 22 | 0.15 | 0.15 | 40 | 40 | 28 | 34 | 50 | 2 | 180 |
| TV26N0805 | | | | | | | 0805 | N/A | 20 | 26 | 0.15 | 0.15 | 40 | 40 | 33 | 40 | 60 | 2 | 100 |

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

- A = UL1449
- B = cUL
- C = CSA
- D = VDE
- E =
- F =

TV SERIES

Low Capacitance MLV

| Maida Style Number | Length (L) (in) | Length Tolerance (L) (in) | Width (W) (in) | Width Tolerance (W) (in) | MAX. Height (H) (in) | Land Pad Length (PL) (in) | Land Pad Width (PW) (in) | Land Pad Thickness (PT) (in) | Typical Wire Diameter (d) (in) |
|--------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------------|
| TV5R5N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV9N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV11N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV14N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV18N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV22N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV26N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| TV5R5N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| TV9N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| TV11N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| TV14N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| TV18N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| TV22N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| TV26N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |

PV SERIES

Power MLV

| Maida Style Number | Recognitions To Safety Agency Standards | | | | | | Nominal Size | Minimum Marking | Maximum Ratings | | | | | | Electrical Characteristics | | | | |
|--------------------|---|--|--|--|--|--|--------------|-----------------|-----------------|------|------------------------------------|---------------------------------|--|------|----------------------------|------|--------------------------------------|----|---------------|
| | | | | | | | | | Continuous | | Transient | | | | Varistor Voltage @1 mA DC | | Max Clamping Voltage (@Test Current) | | Typical Cap. |
| | | | | | | | | | Applied Voltage | | Energy | | Peak Current | | | | | | |
| | | | | | | | | | | | 10 x 1000 $\mu\text{J}/\text{sec}$ | 8 x 20 $\mu\text{J}/\text{sec}$ | 8 x 20 $\mu\text{J}/\text{sec}$ # Pulses | | Vmin | Vmax | (8 x 20 $\mu\text{J}/\text{sec}$) | | 1 V rms @1kHz |
| | | | | | | | | | (AC) | (DC) | (J) | (J) | 1 | 2 | | | | | |
| PV5R5N0603 | | | | | | | 0603 | N/A | 4 | 5.5 | 0.15 | 0.15 | 40 | 40 | 6.9 | 9.3 | 15.5 | 2 | 800 |
| PV14N0603 | | | | | | | 0603 | N/A | 10 | 14 | 0.15 | 0.15 | 40 | 40 | 17.5 | 23.7 | 30 | 2 | 450 |
| PV18N0603 | | | | | | | 0603 | N/A | 14 | 18 | 0.15 | 0.15 | 40 | 40 | 23 | 30 | 40 | 2 | 380 |
| PV22N0603 | | | | | | | 0603 | N/A | 17 | 22 | 0.15 | 0.15 | 40 | 40 | 28 | 34 | 58 | 2 | 290 |
| | | | | | | | | | | | | | | | | | | | |
| PV5R5N0805 | | | | | | | 0805 | N/A | 4 | 5.5 | 0.4 | 0.4 | 120 | 120 | 6.9 | 9.3 | 15.5 | 5 | 1530 |
| PV14N0805 | | | | | | | 0805 | N/A | 10 | 14 | 0.4 | 0.4 | 150 | 150 | 16.5 | 20.5 | 30 | 5 | 750 |
| PV18N0805 | | | | | | | 0805 | N/A | 14 | 18 | 0.4 | 0.4 | 150 | 150 | 23 | 30 | 40 | 5 | 640 |
| PV22N0805 | | | | | | | 0805 | N/A | 17 | 22 | 0.4 | 0.4 | 150 | 150 | 28 | 34 | 50 | 5 | 540 |
| PV26N0805 | | | | | | | 0805 | N/A | 20 | 26 | 0.4 | 0.4 | 150 | 150 | 33 | 40 | 58 | 5 | 480 |
| PV30N0805 | | | | | | | 0805 | N/A | 25 | 30 | 0.4 | 0.4 | 150 | 150 | 38 | 46 | 65 | 5 | 250 |
| | | | | | | | | | | | | | | | | | | | |
| PV3R5N1206 | | | | | | | 1206 | N/A | 2.5 | 3.3 | 0.7 | 0.7 | 150 | 150 | 4.4 | 6.6 | 13 | 10 | 7400 |
| PV5R5N1206 | | | | | | | 1206 | N/A | 4 | 5.5 | 0.7 | 0.7 | 150 | 150 | 6.9 | 9.3 | 15.5 | 10 | 4800 |
| PV14N1206 | | | | | | | 1206 | N/A | 10 | 14 | 0.7 | 0.7 | 200 | 200 | 17.5 | 23.7 | 30 | 10 | 2200 |
| PV18N1206 | | | | | | | 1206 | N/A | 14 | 18 | 0.7 | 0.7 | 200 | 200 | 23 | 30 | 40 | 10 | 1700 |
| PV26N1206 | | | | | | | 1206 | N/A | 20 | 26 | 0.7 | 0.7 | 200 | 200 | 33 | 40 | 58 | 10 | 1550 |
| PV30N1206 | | | | | | | 1206 | N/A | 25 | 30 | 0.7 | 0.7 | 200 | 200 | 38 | 46 | 66 | 10 | 1430 |
| PV48N1206 | | | | | | | 1206 | N/A | 40 | 48 | 0.7 | 0.7 | 200 | 200 | 55 | 66 | 100 | 10 | 1070 |
| | | | | | | | | | | | | | | | | | | | |
| PV18N1210 | | | | | | | 1210 | N/A | 14 | 18 | 1.5 | 1.5 | 500 | 500 | 23 | 30 | 40 | 10 | 2680 |
| PV26N1210 | | | | | | | 1210 | N/A | 20 | 26 | 1.5 | 1.5 | 300 | 300 | 33 | 40 | 58 | 10 | 2100 |
| PV30N1210 | | | | | | | 1210 | N/A | 25 | 30 | 1.5 | 1.5 | 250 | 250 | 38 | 46 | 66 | 10 | 1900 |
| PV48N1210 | | | | | | | 1210 | N/A | 40 | 48 | 1.5 | 1.5 | 250 | 250 | 55 | 66 | 100 | 10 | 1600 |
| PV60N1210 | | | | | | | 1210 | N/A | 50 | 60 | 1.5 | 1.5 | 250 | 250 | 69 | 83 | 140 | 10 | 1230 |
| PV85N1210 | | | | | | | 1210 | N/A | 67 | 85 | 1.5 | 1.5 | 250 | 250 | 98 | 118 | 160 | 10 | 590 |
| | | | | | | | | | | | | | | | | | | | |
| PV18N1812 | | | | | | | 1812 | N/A | 14 | 18 | 2.5 | 2.5 | 500 | 500 | 23 | 30 | 40 | 10 | 3800 |
| PV26N1812 | | | | | | | 1812 | N/A | 20 | 26 | 3.0 | 3.0 | 500 | 500 | 33 | 40 | 58 | 10 | 2950 |
| PV30N1812 | | | | | | | 1812 | N/A | 25 | 30 | 3.7 | 3.7 | 500 | 500 | 38 | 46 | 66 | 10 | 2820 |
| PV48N1812 | | | | | | | 1812 | N/A | 40 | 48 | 4.0 | 4.0 | 400 | 400 | 55 | 66 | 100 | 10 | 2740 |
| PV60N1812 | | | | | | | 1812 | N/A | 50 | 60 | 4.5 | 4.5 | 400 | 400 | 69 | 83 | 140 | 10 | 2220 |
| PV85N1812 | | | | | | | 1812 | N/A | 67 | 85 | 5.8 | 5.8 | 400 | 400 | 98 | 118 | 160 | 10 | 1400 |
| | | | | | | | | | | | | | | | | | | | |
| PV5R5N2220 | | | | | | | 2220 | N/A | 4 | 5.5 | 2 | 2 | 1000 | 1000 | 6.9 | 9.3 | 15.5 | 10 | 15000 |
| PV14N2220 | | | | | | | 2220 | N/A | 10 | 14 | 2.5 | 2.5 | 1200 | 1200 | 17.5 | 23.7 | 30 | 10 | 9600 |
| PV18N2220 | | | | | | | 2220 | N/A | 14 | 18 | 3 | 3 | 1200 | 1200 | 23 | 30 | 40 | 10 | 6400 |
| PV26N2220 | | | | | | | 2220 | N/A | 20 | 26 | 5 | 5 | 1200 | 1200 | 33 | 40 | 58 | 10 | 6200 |
| PV30N2220 | | | | | | | 2220 | N/A | 25 | 30 | 6 | 6 | 1200 | 1200 | 38 | 46 | 66 | 10 | 5700 |
| PV38N2220 | | | | | | | 2220 | N/A | 30 | 38 | 6 | 6 | 1200 | 1200 | 42 | 52 | 77 | 10 | 5500 |
| PV48N2220 | | | | | | | 2220 | N/A | 40 | 48 | 8 | 8 | 1200 | 1200 | 55 | 66 | 100 | 10 | 5200 |

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

- A = UL1449 D = VDE
- B = cUL E =
- C = CSA F =

PV SERIES

Power MLV

| Maida Style Number | Length (L) (in) | Length Tolerance (L) (in) | Width (W) (in) | Width Tolerance (W) (in) | MAX. Height (H) (in) | Land Pad Length (PL) (in) | Land Pad Width (PW) (in) | Land Pad Thickness (PT) (in) | Typical Wire Diameter (d) (in) |
|--------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------------|
| PV5R5N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| PV14N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| PV18N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| PV22N0603 | 0.063 | 0.006 | 0.032 | 0.006 | 0.035 | 0.110 | 0.380 | 0.040 | N/A |
| PV5R5N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| PV14N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| PV18N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| PV22N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| PV26N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| PV30N0805 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | 0.125 | 0.600 | 0.045 | N/A |
| PV3R5N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV5R5N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV14N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV18N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV26N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV30N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV48N1206 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | 0.175 | 0.068 | 0.065 | N/A |
| PV18N1210 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| PV26N1210 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| PV30N1210 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| PV48N1210 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| PV60N1210 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| PV85N1210 | 0.126 | 0.012 | 0.098 | 0.012 | 0.071 | 0.175 | 0.110 | 0.065 | N/A |
| PV18N1812 | 0.177 | 0.014 | 0.126 | 0.012 | 0.079 | 0.230 | 0.135 | 0.075 | N/A |
| PV26N1812 | 0.177 | 0.014 | 0.126 | 0.012 | 0.079 | 0.230 | 0.135 | 0.075 | N/A |
| PV30N1812 | 0.177 | 0.014 | 0.126 | 0.012 | 0.079 | 0.230 | 0.135 | 0.075 | N/A |
| PV48N1812 | 0.177 | 0.014 | 0.126 | 0.012 | 0.079 | 0.230 | 0.135 | 0.075 | N/A |
| PV60N1812 | 0.177 | 0.014 | 0.126 | 0.012 | 0.079 | 0.230 | 0.135 | 0.075 | N/A |
| PV85N1812 | 0.177 | 0.014 | 0.126 | 0.012 | 0.079 | 0.230 | 0.135 | 0.075 | N/A |
| PV5R5N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |
| PV14N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |
| PV18N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |
| PV26N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |
| PV30N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |
| PV38N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |
| PV48N2220 | 0.224 | 0.014 | 0.197 | 0.014 | 0.098 | 0.275 | 0.225 | 0.085 | N/A |

AV SERIES

Array series for multiple ESD protection

| Maida Style Number | Recognitions To Safety Agency Standards | | | | | | Nominal Size | Minimum Marking | Maximum Ratings | | | | | | Electrical Characteristics | | | | | | | |
|--------------------|---|--|--|--|--|--|--------------|-----------------|-----------------|-----|---------------------|------|------------------|-----|--|------|------------------------------|---|---|--|----------------------------------|--|
| | | | | | | | | | Continuous | | Transient | | | | Peak Current 8 x 20 μ sec # Pulses | | Varistor Voltage @1 mA DC | | Max Clamping Voltage (@Test Current) | | Typical Cap. 1 V rms @1kHz | |
| | | | | | | | | | Applied Voltage | | Energy | | Energy | | | | | | | | | |
| | | | | | | | | | | | 10 x 1000 μ sec | | 8 x 20 μ sec | | 1 2 | | Vmin Vmax | | (8 x 20 μ sec) | | | |
| | | | | | | | | | (AC) (DC) | | (J) (J) | | (A) (A) | | (V) (V) | | (V) (A) | | | | | |
| AV40805N5R5100 | | | | | | | 0805 | N/A | 4 | 5.5 | 0.01 | 0.01 | 5 | 5 | 9.6 | 14.4 | 34 | 1 | 10 | | | |
| AV40805N5R5330 | | | | | | | 0805 | N/A | 4 | 5.5 | 0.01 | 0.01 | 10 | 10 | 9.6 | 14.4 | 28 | 1 | 33 | | | |
| AV40805N5R5500 | | | | | | | 0805 | N/A | 4 | 5.5 | 0.01 | 0.01 | 10 | 10 | 9.6 | 14.4 | 27 | 1 | 50 | | | |
| AV40805N18150 | | | | | | | 0805 | N/A | 14 | 18 | 0.01 | 0.01 | 5 | 5 | 25 | 31 | 58 | 1 | 15 | | | |
| AV41206N18040 | | | | | | | 1206 | N/A | 14 | <18 | N/A | N/A | 120 | 120 | 22 | 31 | 48 | 1 | 40 | | | |
| AV41206N18120 | | | | | | | 1206 | N/A | 14 | <18 | N/A | N/A | 150 | 150 | 22 | 31 | 45 | 1 | 120 | | | |

NOTES:

Appendix A lists the single-pulse peak current and energy ratings on file with the Safety Agencies.

Maximum transient rating specified in this table are valid. They may differ from those shown in Appendix A.

- A = UL1449
- B = cUL
- C = CSA
- D = VDE
- E =
- F =

AV SERIES

Array series for multiple ESD protection

| Maida Style Number | Length (L) (in) | Length Tolerance (L) (in) | Width (W) (in) | Width Tolerance (W) (in) | MAX. Height (H) (in) | Land Pad Length (PL) (in) | Land Pad Width (PW) (in) | Land Pad Thickness (PT) (in) | Typical Wire Diameter (d) (in) |
|--------------------|--------------------|------------------------------|-------------------|-----------------------------|-------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------------------|
| AV40805N5R5100 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | (1) | (1) | (1) | N/A |
| AV40805N5R5330 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | (1) | (1) | (1) | N/A |
| AV40805N5R5500 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | (1) | (1) | (1) | N/A |
| AV40805N18150 | 0.079 | 0.008 | 0.049 | 0.008 | 0.043 | (1) | (1) | (1) | N/A |
| AV41206N18040 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | (1) | (1) | (1) | N/A |
| AV41206N18120 | 0.126 | 0.012 | 0.063 | 0.012 | 0.067 | (1) | (1) | (1) | N/A |

(1) : Please contact Maida for details.