



# STANDARD SERIES

MAIDA STYLE NUMBER D69ZOV511RA110

MAIDA ITEM NUMBER 01-0610

**VARISTOR SPEC SHEET**

### Electrical Specifications

|                                    |      |      |
|------------------------------------|------|------|
| Continuous AC Voltage              | 510  | VAC  |
| Continuous DC Voltage              | 675  | VDC  |
| Maximum DC Leakage @ 675 VDC       | 200  | uA   |
| Low Varistor Voltage Limit         | 722  | VDC  |
| High Varistor Voltage Limit        | 881  | VDC  |
| Nominal Varistor Voltage           | 802  | VDC  |
| Current for Varistor Voltage       | 1    | mA   |
| Maximum Clamp Voltage              | 1350 | V    |
| Maximum Clamp Voltage Test Current | 50   | A    |
| Peak Current Rating (1 Pulse)      | 6000 | A    |
| Peak Current Rating (2 Pulse)      | 4500 | A    |
| Energy Rating (8X20us)             | 240  | J    |
| Energy Rating (10X1000us)          | 240  | J    |
| Typical Capacitance                | 330  | pF   |
| Impulse Response Time              | < 50 | ns   |
| Minimum Hipot of Coating           | 2500 | VDC  |
| Minimum I.R. of Coating            | 1000 | MΩ   |
| Current/Energy Derating Above 85°C | -2.5 | %/°C |

### Thermal Specifications

|                                    |       |      |
|------------------------------------|-------|------|
| Minimum Operating Temperature      | -40   | °C   |
| Maximum Operating Temperature      | 85    | °C   |
| Varistor Voltage Temperature Coeff | -0.05 | %/°C |
| Minimum Storage Temperature        | -50   | °C   |
| Maximum Storage Temperature        | 125   | °C   |
| Recommended Solder Temperature     | 260   | °C   |
| Recommended Reflow Temperature     | 260   | °C   |

### Notes

### Physical Specifications

|                       |            |
|-----------------------|------------|
| Lead Style            | 082J1      |
| X Nominal             | 0.3 in.    |
| X Tolerance           | 0.04 in.   |
| Y Nominal             | 0.203 in.  |
| Y Tolerance           | 0.03 in.   |
| Z Nominal             | 0.362 in.  |
| Z Tolerance           | 0.04 in.   |
| Lead Length Nominal   | 1.00 in.   |
| Lead Length Tolerance | min. in.   |
| d Nominal             | 0.032 in.  |
| Wire Gauge            | 20 AWG     |
| Minimum Marking       | Z511-110UL |
| Nominal Disk Size     | 14 mm      |
| D Maximum             | 0.65 in.   |
| T Maximum             | 0.347 in.  |
| H Maximum             | 0.775 in.  |
| Coating Type          | EPOXY      |



\* Contact Maida for a more detailed configuration drawing.

### Safety Agency Recognitions

|                     |               |
|---------------------|---------------|
| UL 1449 File Number | E321173       |
| - Tested to Type:   | 2             |
| C-UL File Number    |               |
| CSA File Number     | LR33468       |
| VDE File Number     | 40017480      |
| SEV File Number     | 96.7 70250.01 |



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