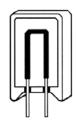
Resistive Product Solutions

Ceramic Housed Vertical Mount Resistor

### Features:

- Flameproof inorganic construction
- High temperature potting compound
- LVM Low resistance wire or ribbon element
- NVM Non-inductively Ayrton Perry winding
- WVM Precision wirewound element
- RoHS compliant / lead-free



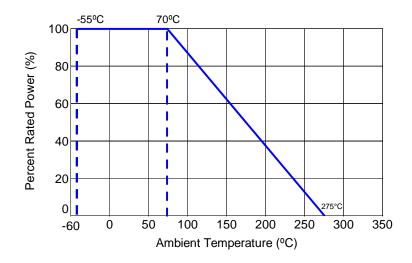
| Electrical Specifications |                                   |                   |                                      |                               |             |            |     |  |  |  |
|---------------------------|-----------------------------------|-------------------|--------------------------------------|-------------------------------|-------------|------------|-----|--|--|--|
| Type / Code               | Power Rating<br>(Watts) @<br>70°C | Voltage<br>Rating | TCR (ppm/°C)                         | Ohmic Range (Ω) and Tolerance |             |            |     |  |  |  |
|                           |                                   |                   |                                      | 0.5%                          | 1%          | 5%         | 10% |  |  |  |
| LVM5                      | 5W                                | √PR               | 50 / 100                             | -                             | 0.01 - 0.1  |            |     |  |  |  |
| LVM7                      | 7W                                | √PR               | ±50ppm to ±400ppm depending on value | -                             | 0.02 - 0.15 |            |     |  |  |  |
| LVM10                     | 10W                               | √PR               | depending on value                   | -                             | 0.02 - 0.15 |            |     |  |  |  |
| NVM5                      | 5W                                | 350               | <1Ω=±90ppm                           | - C                           |             | 0.1 - 2.4K | -   |  |  |  |
| NVM7                      | 7W                                | 500               | 1Ω to 10Ω=±50ppm                     | -                             |             | 0.1 - 3.9K | -   |  |  |  |
| NVM10                     | 10W                               | 700               | >10Ω=±20ppm -                        |                               | -           | 0.1 - 3.9K | -   |  |  |  |
| WVM5                      | 5W                                | 350               | <1Ω=±90ppm                           | 0.1 - 5K                      |             | -          |     |  |  |  |
| WVM7                      | 7W                                | 500               | 1Ω to 10Ω=±50ppm                     | 0.1 - 8K                      |             | -          |     |  |  |  |
| WVM10                     | 10W                               | 700               | >10Ω=±20ppm                          | 0.1 - 8K                      |             | -          |     |  |  |  |

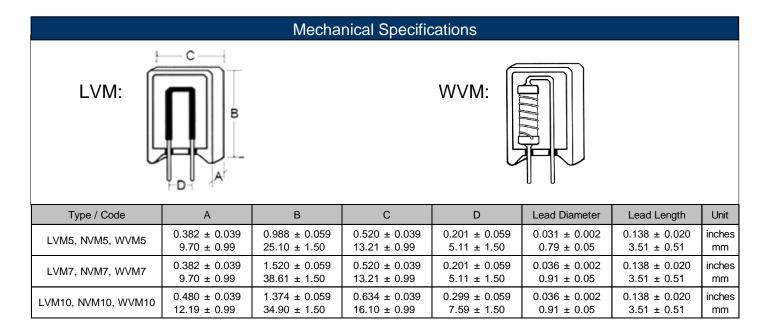
Maximum Working Voltage is limited by √PR unless specified otherwise. Resistance Temperature Coefficient Standard

| Performance Characteristics         |              |  |  |  |  |  |
|-------------------------------------|--------------|--|--|--|--|--|
| Test                                | Test Results |  |  |  |  |  |
| Moisture Resistance                 | ± 5%         |  |  |  |  |  |
| Thermal Shock                       | ± 2%         |  |  |  |  |  |
| Load Life @ 70°C - 1,000 hrs.       | ± 5%         |  |  |  |  |  |
| Resistance to Soldering Heat        | ± 2%         |  |  |  |  |  |
| Short Time Overload - 5xPn for 5sec | ± 2%         |  |  |  |  |  |
| Dielectric Withstanding Voltage     | ± 2%         |  |  |  |  |  |

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# **Power Derating Curve:**





## **RoHS Compliance**

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 2). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament.

| RoHS Compliance Status        |  |                                  |   |                                      |  |  |  |  |  |
|-------------------------------|--|----------------------------------|---|--------------------------------------|--|--|--|--|--|
| Standard<br>Product<br>Series | Description  | Package /<br>Termination<br>Type | Standard<br>Series<br>RoHS<br>Compliant | Lead-Free Termination<br>Composition | Lead-Free<br>Mfg. Effective Date<br>(Std Product Series) | Lead-Free<br>Effective Date<br>Code<br>(YY/WW) |  |  |  |
| LVM                           | Ceramic Housed Vertical Mount<br>Low Resistance Resistor<br>(Ribbon Element) | Radial                           | YES                                     | 100% Matte SN                        | Jan-06   | 06/01  |  |  |  |
| NVM                           | Ceramic Housed Vertical Mount Wirewound<br>Resistor (Standard WW)            | Radial                           | YES                                     | 100% Matte Sn                        | Always   | Always   |  |  |  |
| WVM                           | Ceramic Housed Vertical Mount<br>Wirewound Resistor<br>(Precision Wirewound) | Radial                           | YES                                     | 100% Matte Sn                        | Jan-06   | 06/01  |  |  |  |

#### "Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the Eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Ceramic Housed Vertical Mount Resistor Resistive Product Solutions

## Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

## **Environmental Policy**

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

