

Vishay Foil Resistors

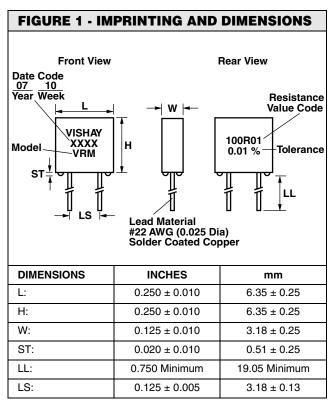
Bulk Metal[®] Foil Technology Industrial Miniature Precision Resistor with TCR of $\pm 4 \text{ ppm/}^{\circ}C$ and Tolerance to $\pm 0.01 \%$



Any value at any tolerance available with resistance range

The VRM style is a miniaturized version of the now famous S102C. It is made with a Bulk Metal[®] Foil element so it retains all of the inherent performance of foil resistors. It does not, however, have the value range, power rating, TCR or lead spacing of the S102C. It is a size for size replacement for certain wirewounds and finds application in situations where size constraints dictate the use of this miniature precision resistor.

Our Application Engineering Department is available to advise and to make recommendations. For non-standard technical requirements and special applications, please contact us.



* Pb containing terminations are not RoHS compliant, exemptions may apply

FEATURES

- Temperature Coefficient of Resistance: ± 4 ppm/°C (0 °C to + 60 °C);
 - ± 8 ppm/°C (- 55 °C to + 125 °C, 25 °C Ref.)
- Resistance Range: 5 Ω to 50 k Ω
- Tolerance: to ± 0.01 %
- Power Rating: 0.25 W at + 70 °C; 0.125 W at + 125 °C
- Load Life Stability: ± 0.05 % Maximum ∆R at + 70 °C at Rated Power for 2000 hours
- Non Inductive: < 0.08 μH
- Thermal EMF: < 0.1 μV/°C
- Long Term Stability: ± 0.0025 % (25 ppm) per year under low power and room temperature conditions
- Voltage Coefficient: < 0.1 ppm/V
- Maximum Working Voltage: 250 V
- Terminal Finishes Available: Lead (Pb)-free Tin/Lead Alloy
- Any value available within resistance range (e.g. 1K234)
- Prototype samples available from 48 hours. For more information, please contact <u>foil@vishay.com</u>
- For better performances, please see S-Series datasheet

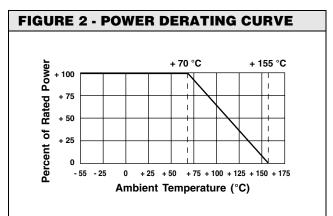


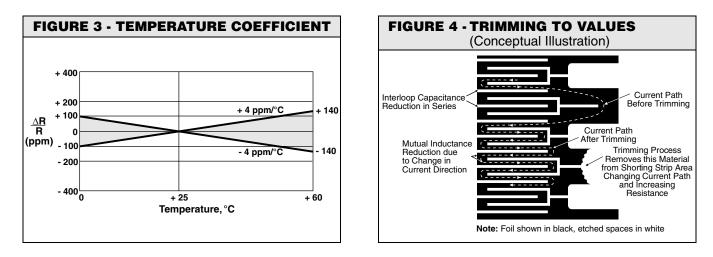
TABLE 1 - RESISTANCE VALUES VS TOLERANCE	
5 Ω to 50 Ω	50 Ω to 50 k Ω
± 0.1 % ± 0.25 % ± 0.5 % ± 1.0 %	$\begin{array}{c} \pm \ 0.01 \ \% \\ \pm \ 0.02 \ \% \\ \pm \ 0.05 \ \% \\ \pm \ 0.1 \ \% \\ \pm \ 0.25 \ \% \\ \pm \ 0.5 \ \% \\ \pm \ 1.0 \ \% \end{array}$

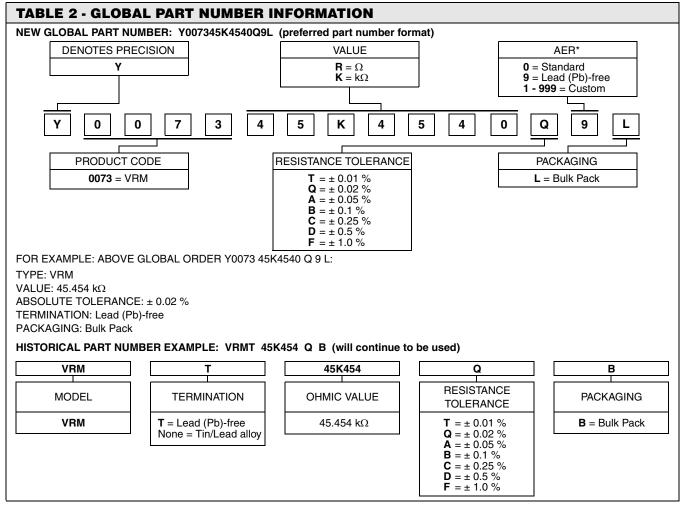


COMPLIANT



Vishay Foil Resistors Bulk Metal[®] Foil Technology Industrial Miniature Precision Resistor with TCR of $\pm 4 \text{ ppm/}^{\circ}C$ and Tolerance to $\pm 0.01 \%$





Note

* For non-standard requests, please contact Application Engineering.



Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.