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<u>Vishay Foil Resistors (Division of Vishay Precision Group)</u> <u>Y1184157K000B0L</u>

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Vishay Foil Resistors (Division of Vishay Precision Group): Excellent Integr Datasheet of Y1184157K000B0L - RES 157K OHM .3W .1% RADIAL

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

E102



Vishay Foil Resistors

High Precision Bulk Metal® Foil Extended Value Range Resistor, with TCR of 2 ppm/°C, Tolerance to 0.005 %, and Power Rated at 0.6 W



Any value available within resistance range

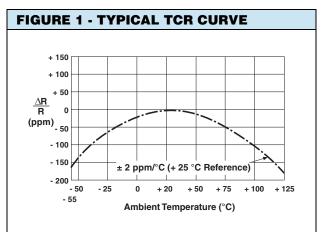
Bulk Metal® foil (BMF) technology outperforms all other resistor technologies available today for applications that require high precision and high stability.

This technology has been pioneered and developed by VISHAY, and products based on this technology are the most suitable for a wide range of applications.

BMF technology allows us to produce customer orientated products, designed to satisfy challenging and specific technical requirements.

The E102C (0.150" lead spacing) and E102J (0.200" lead spacing) extends the range of the high precision aerospace and instrumentation standard S102C/J from 150K to 300K.

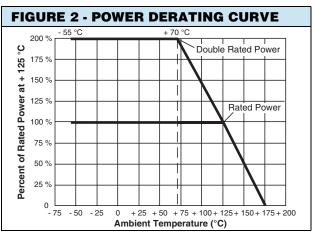
Our application engineering department is available to advise and to make recommendations. For non-standard technical requirements and special applications, please contact us.



Revision: 25-Mar-10

FEATURES

- Temperature coefficient of resistance (TCR): - 55 °C to + 125 °C, + 25 °C ref. 2 ppm/°C typical
- Rated power: to 0.3 W at + 125 °C
- Tolerance: ± 0.005 %
- Load life stability: to ± 0.005 % at 70 °C, 2000 h at rated
- Resistance range: 150 k Ω to 300 k Ω (higher and lower values of resistance are available)
- Electrostatic discharge (ESD) above 25 000 V
- Non inductive, non capacitive design
- · Rise time: 1 ns without ringing
- Current noise: < 40 dB
- Thermal EMF: 0.05 μV/°C typical
- Voltage coefficient < 0.1 ppm/V
- Low inductance: < 0.08 μH typical
- Non hot spot design
- Terminal finishes available: lead (Pb)-free tin/lead alloy
- · Matched sets are available on request (TCR tracking: to 0.5 ppm/°C)
- For better TCR and PCR performances please review the E102Z datasheet



| TABLE 1 - E102 SPECIFICATIONS | |
|-------------------------------|---|
| Stability | 0.005.0/ |
| Load life at 2000 h | ± 0.005 % maximum ∆R at 0.1 W/+ 70 °C ± 0.015 % maximum ∧R at 0.3 W/+ 125 °C |
| Load life at 10 000 h | $\pm 0.01\%$ maximum Δ R at 0.05 W/+ 125 °C |
| | ± 0.05 % maximum ΔR at 0.3 W/+ 125 °C |
| Current Noise | < - 40 dB |
| High Frequency Operation | |
| Rise time | 1.0 ns |
| Inductance (L) | 0.1 μH maximum; 0.08 μH typical |
| Capacitance (C) | 1.0 pF maximum; 0.5 pF typical |
| Voltage Coefficient | < 0.1 ppm/V |
| Thermal EMF | 0.1 μV/°C maximum; 0.05 μV/°C typical |

Document Number: 63066 For any questions, contact: foil@vishaypg.com www.foilresistors.com



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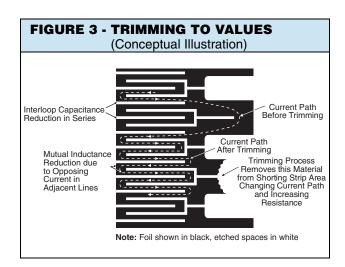
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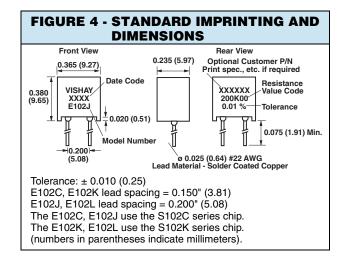
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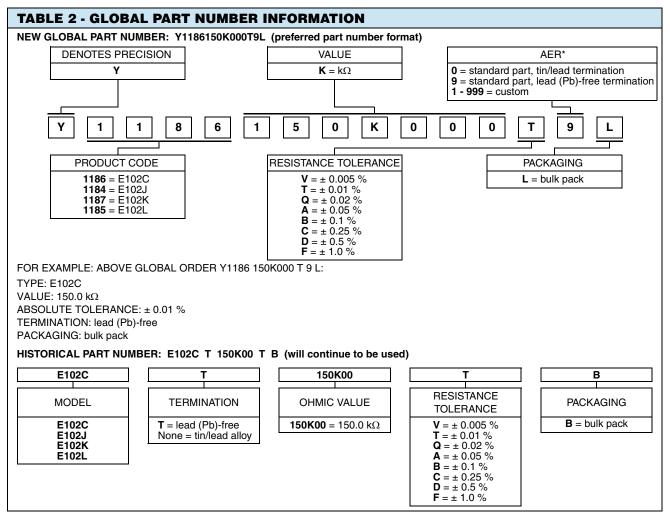
E102

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Note

^{*} Application engineering release: for non-standard requests, please contact application engineering.



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