

ERJ-A/B Series Line Extension

Wide Terminal Type, High Power Thick Film Chip Resistors

Stronger Solder Joint and Higher Heat Dissipation for Power Circuits and Current Sensing Functions

Panasonic, a worldwide leader in Resistor Products, is expanding the **ERJ-A and ERJ-B Series** Wide Terminal Types of High Power Thick Film Chip Resistors. With a wide terminal design, the **ERJ-A/B Series** achieves strong solder joint reliability to compensate for vibration and shock from the application environment. The wide terminal design also improves heat dissipation to handle thermal shock and high power rating. The **ERJ-A/B Series** covers the resistance range from 5mΩ to 1MΩ in E24 values or more, with a good TCR varying from $\pm 100 \times 10^{-6}/^{\circ}\text{C}$ to $\pm 350 \times 10^{-6}/^{\circ}\text{C}$, and high power rating varying from 0.33W to 2W. The offering is expanded to include EIA cases sizes (in inches) of 0805, 1206, 2010 and 2512. Resistance tolerances are available in $\pm 1\%$, and $\pm 5\%$ for applications in various precision levels. The temperature range of -55°C to $+155^{\circ}\text{C}$, combined with the excellent performance characteristics above, make this product ideal for tough environments such as outdoor products, industrial equipment (welding, mining, winery, agriculture), automotive/transportation equipments, telecommunication equipment, and factory automation. The expanded low resistance values are perfect for low-ohmic (current sense) design usage in these critical applications, particularly in the DC-DC switch power circuit areas.

Features:

- Expanded Offering from 5% to 1% Tolerance
- Expanded Offering from 2512 Case Size to Smaller EIA Case Sizes (2012, 1206, 0805)
- Expanded Offering Down to 5mΩ Low Resistance Range for Current Sensing Function
- Power Rating from 0.25W to 2W at 70°C
- Temperature Coefficient (TCR) from $\pm 100 \times 10^{-6}/^{\circ}\text{C}$ to $\pm 350 \times 10^{-6}/^{\circ}\text{C}$
- Operating Temperature Range: -55°C to $+155^{\circ}\text{C}$
- Supports 260°C Maximum Temperature for Lead-Free Soldering Process
- RoHS Compliant

Benefits:

- Strong Solder Joint Strength and Reliability
- Low Ohmic Resistance Values for Current Sense Function
- Good TCR and High Rated Power
- Small Case Size

Industries:

- Automotive
- Industrial
- Factory Automation
- Information
- Audio Visual
- Amusement Equipment

Applications:

- Outdoor Environment Equipment
- Low Ohmic / Current Sense Function
- Power Supply DC-DC Conversion
- Automotive Electronics, Anti-locking Braking Systems, ECU and Air Bag Systems

Additional Information:



For detailed specification information the ERJ-A/B Series Wide Terminal Type High Power Thick Film Chip Resistors Line Extension, please visit [panasonic.com/industrial/](http://panasonic.com/industrial/components/pdf/ERJ-A-B_Datasheet.pdf)

[components/pdf/ERJ-A-B_Datasheet.pdf](http://panasonic.com/industrial/components/pdf/ERJ-A-B_Datasheet.pdf) today!

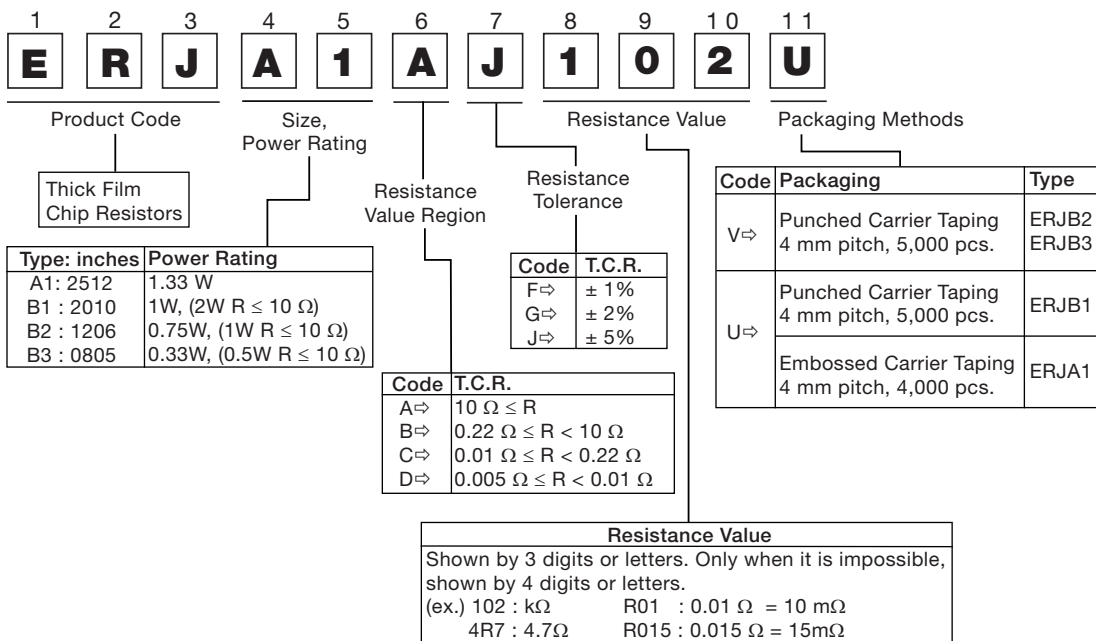
website: panasonic.com/industrial/electronic-components/resistive-products/index.aspx

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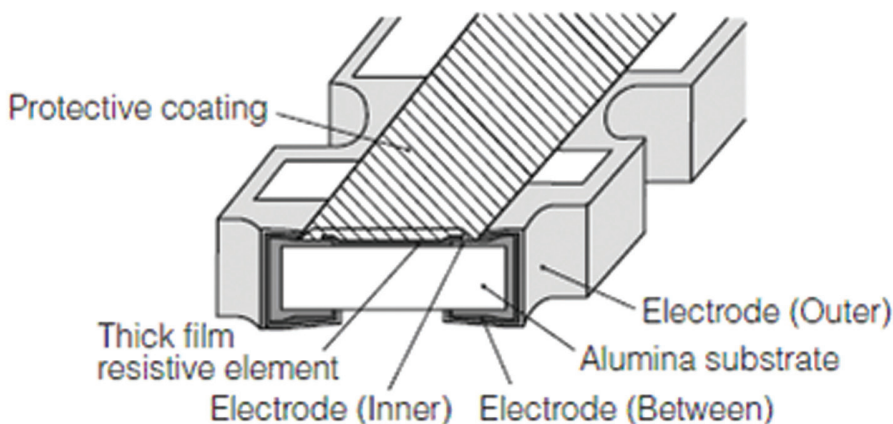
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Part Number Information:



Product Construction:



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