

## ERA-xA Series Line Extension

### High Reliability Metal/Thin Film Chip Resistors

#### Improving Accuracy and Reliability for Audio and Automotive Applications

Panasonic, a worldwide leader in Resistor Products, is expanding its successful line of high reliability metal film (also known as thin film) chip resistors. These new parts offer a 0.5% resistance tolerance rating, in 1206, 0805 and 0603 (inch) case sizes, with  $\pm 25 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$  and  $\pm 50 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$  temperature coefficients. The **ERA-xA Series** Thin Film Resistor product line offers a highly precise, controlled and reliable solution to demanding designs.

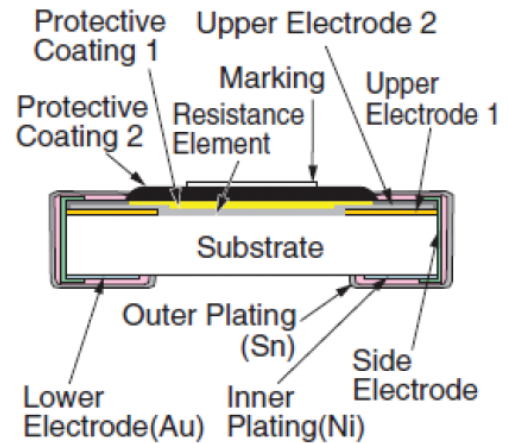
#### Features:

- Multiple Power Rating: 0.25W (Case Size 1206 Inch), 0.125W (0805), 0.1W (0603), 0.063W (0402)
- Multiple Resistance Tolerances:  $\pm 0.05\%$ ,  $\pm 0.1\%$ ,  **$\pm 0.5\%$  New!**
- Multiple Temperature Coefficients:  $\pm 10 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$ ,  $\pm 15 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$ ,  $\pm 25 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$ ,  $\pm 50 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$ ,  $\pm 100 \times 10^{-6}$  ppm/ $^{\circ}\text{C}$
- Operating Temperature Range:  $-55^{\circ}\text{C}$  To  $+155^{\circ}\text{C}$
- Conforms to IEC 60115-8, JIS C 5201\*8, EIAJ RC-233B
- Supports  $260^{\circ}\text{C}$  Maximum Temperature for Lead-Free Soldering Process
- Rohs Compliant, Supports  $260^{\circ}\text{C}$  Maximum Temperature for Lead-Free Soldering Process

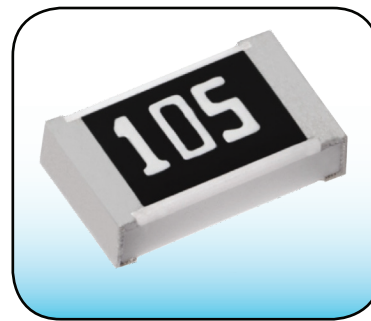
#### Benefits:

- High Heat Resistance:  $\Delta R < 0.1\%$  at  $155^{\circ}\text{C}$ , The Upper Limit of the Category Temperature Range
- High humidity resistance:  $\Delta R < 0.1\%$  at  $85^{\circ}\text{C}/85\% \text{ RH}$  Under the Rated Load
- High precision: Tight TCR and Resistance Tolerance
- High Performance: Low Current Noise, Minimal Non-Linearity

#### Product Construction:



#### Additional Information:



For detailed specification information the ERA-xA Series Metal/Thin Film Chip Resistors Line Extension, please visit [panasonic.com/industrial/components/pdf/ERA-xA\\_Datasheet.pdf](http://panasonic.com/industrial/components/pdf/ERA-xA_Datasheet.pdf) today!

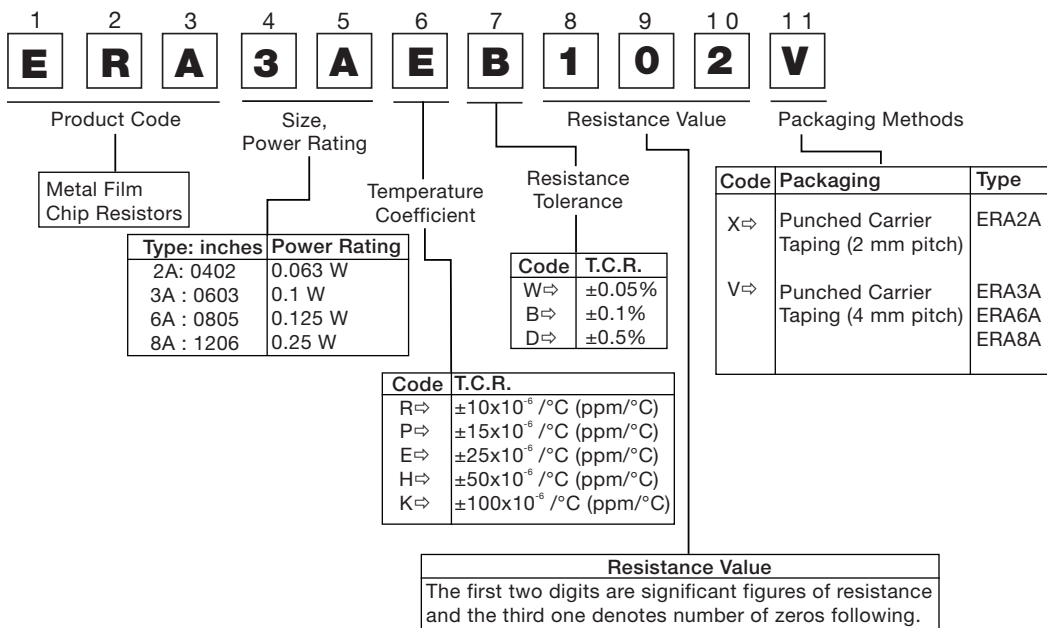
**Website:** [panasonic.com/industrial/electronic-components/resistive-products/index.aspx](http://panasonic.com/industrial/electronic-components/resistive-products/index.aspx)

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#### Part Number Information:



#### Industries:

- Audio Video
- Automotive
- Industrial Controls
- Measuring Instruments

#### Applications:

- Traffic Control
- Dcdc Converter
- High Frequency Circuit
- Control Unit Measurement
- Battery Management
- Automotive Electronics (Ecu, Charging/Discharging Control Of Hybrid Systems)
- Amplifiers Of Sensor Output
- Inverter Power Supplies
- Audio Circuits