

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

Metal Film (Thin Film) Chip Resistors, High Reliability Type

102

102

102

Type: **ERA 1A, 2A, 3A, 6A, 8A**

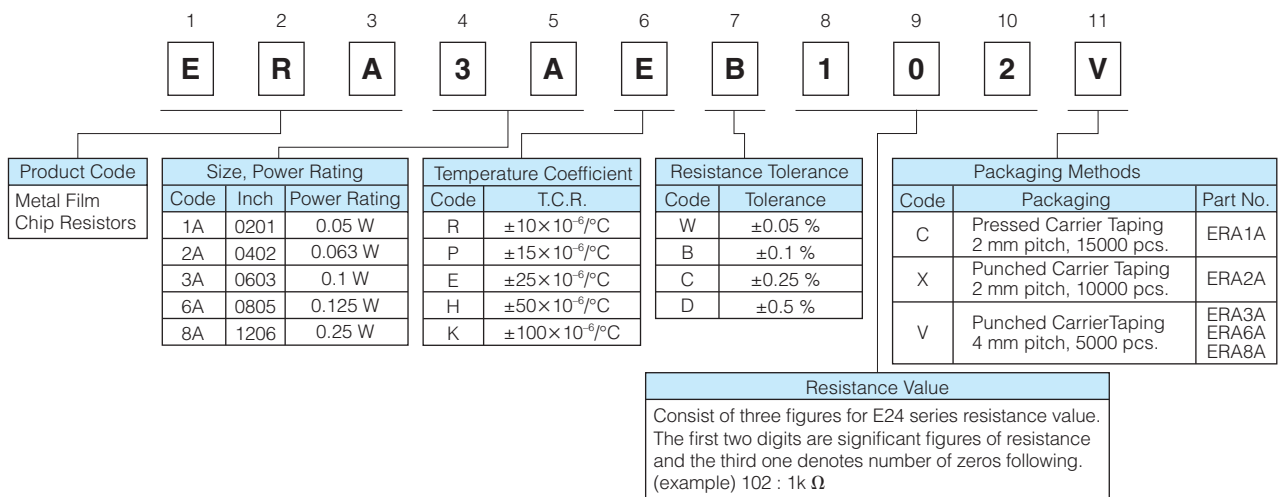
Features

- High reliability Stable at high temperature and humidity
(85 °C 85 %RH rated load, Category temperature range : -55 °C to +155 °C)
- High accuracy Small resistance tolerance and Temperature Coefficient of Resistance
- High performance Low current noise, excellent linearity
- Reference Standard IEC 60115-8, JIS C 5201-8, EIAJ RC-2133B
- AEC-Q200 qualified
- RoHS compliant

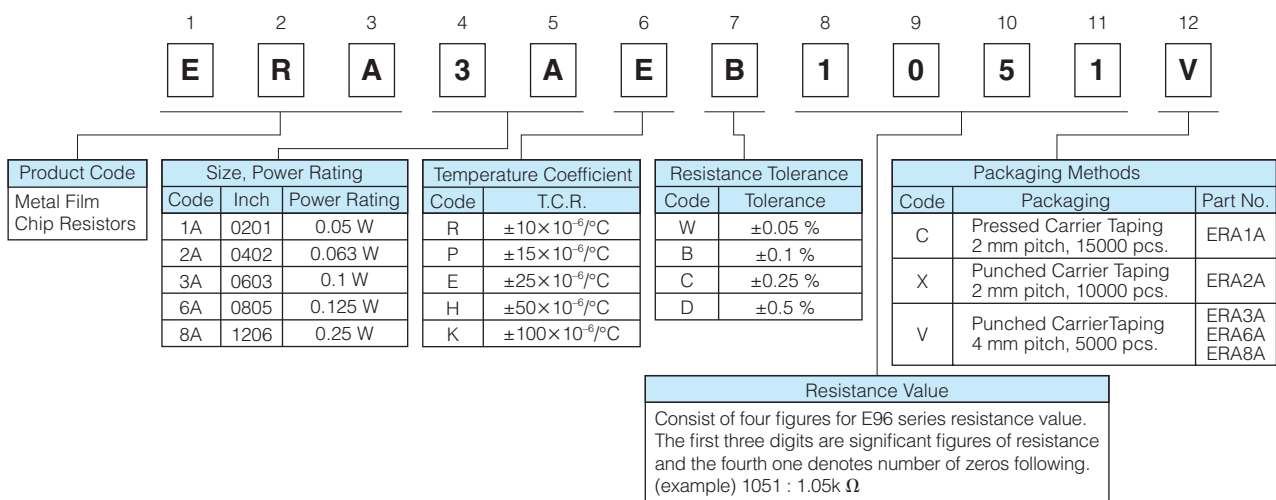
As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions,
Please see Data Files

Explanation of Part Numbers

- E24 Series

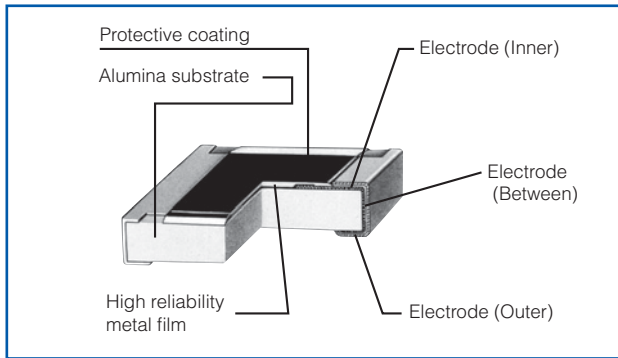


- E96 Series and other Resistance values

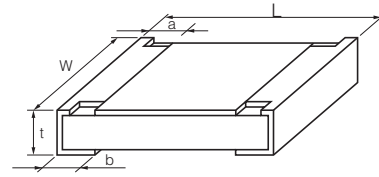


note : Duplicated resistance values as E24 series part numbers shall follow E24 part numbers.
(apply three digit resistance value)

Construction



Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)					Mass (Weight) [g/1000pcs.]
	L	W	a	b	t	
ERA1A (0201)	0.60 ^{±0.03}	0.30 ^{±0.03}	0.15 ^{±0.05}	0.15 ^{±0.05}	0.23 ^{±0.03}	0.14
ERA2A (0402)	1.00 ^{±0.10}	0.50 ^{±0.05}	0.15 ^{±0.10}	0.25 ^{±0.10}	0.35 ^{±0.05}	0.6
ERA3A (0603)	1.60 ^{±0.20}	0.80 ^{±0.20}	0.30 ^{±0.20}	0.30 ^{±0.20}	0.45 ^{±0.10}	2
ERA6A (0805)	2.00 ^{±0.20}	1.25 ^{±0.10}	0.40 ^{±0.25}	0.40 ^{±0.25}	0.50 ^{±0.10}	4
ERA8A (1206)	3.20 ^{±0.20}	1.60 ^{±0.15}	0.50 ^{±0.25}	0.50 ^{±0.25}	0.60 ^{±0.10}	8

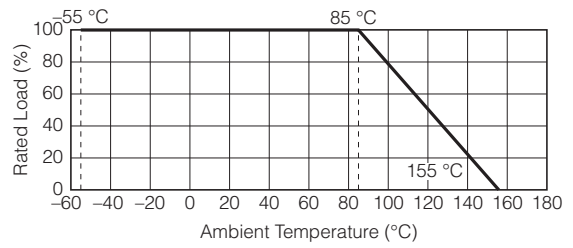
Ratings

Part No. (inch size)	Power Rating at 85 °C (W)	Limiting Element Voltage ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Part No. (detail)	Resistance Tolerance (%)	T.C.R. (×10 ⁻⁶ /°C)	Resistance Range ⁽³⁾⁽⁴⁾ (Ω)	Category Temperature Range (°C)
ERA1A (0201)	0.05	25	50	ERA1AEB	±0.1	±25	100 to 10k (E24, E96)	-55 to +155
				ERA1AEC	±0.25			
				ERA1ARC	±0.25			
				ERA1ARB	±0.1	±10	100 to 10k (E24, E96)	
				ERA1ARW	±0.05			
ERA2A (0402)	0.063	50	100	ERA2AKD	±0.5	±100	10 to 46.4 (E24, E96)	
				ERA2AED	±0.5	±25	47 to 100k (E24, E96)	
				ERA2AEC	±0.25			
				ERA2AEB	±0.1			
				ERA2APC	±0.25	±15	200 to 47k (E24, E96)	
				ERA2APB	±0.1			
				ERA2ARC	±0.25	±10	200 to 47k (E24, E96)	
ERA2ARB	±0.1							
ERA3A (0603)	0.1	75	150	ERA3AHD	±0.5	±50	10 to 46.4 (E24, E96)	
				ERA3AED	±0.5	±25	47 to 330k (E24, E96)	
				ERA3AEC	±0.25			
				ERA3AEB	±0.1			
				ERA3APC	±0.25	±15	470 to 100k (E24, E96)	
				ERA3APB	±0.1			
				ERA3ARC	±0.25	±10	1k to 100k (E24, E96)	
				ERA3ARB	±0.1			
ERA3ARW	±0.05							
ERA6A (0805)	0.125	100	200	ERA6AHD	±0.5	±50	10 to 46.4 (E24, E96)	
				ERA6AED	±0.5	±25	47 to 1M (E24, E96)	
				ERA6AEC	±0.25			
				ERA6AEB	±0.1			
				ERA6APC	±0.25	±15	470 to 100k (E24, E96)	
				ERA6APB	±0.1			
				ERA6ARC	±0.25	±10	1k to 100k (E24, E96)	
				ERA6ARB	±0.1			
ERA6ARW	±0.05							
ERA8A (1206)	0.25	150	300	ERA8AHD	±0.5	±50	10 to 46.4 (E24, E96)	
				ERA8AED	±0.5	±25	47 to 1M (E24, E96)	
				ERA8AEC	±0.25			
				ERA8AEB	±0.1			
				ERA8APC	±0.25	±15	470 to 100k (E24, E96)	
				ERA8APB	±0.1			
				ERA8ARC	±0.25	±10	1k to 100k (E24, E96)	
				ERA8ARB	±0.1			
ERA8ARW	±0.05							

(1) Rated Continuous Working Voltage (RCWV) shall be determined from $RCWV = \sqrt{\text{Rated Power} \times \text{Resistance Values}}$, or Limiting Element Voltage listed above, whichever less.
 (2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from $SOTV = 2.5 \times RCWV$ or max. Overload Voltage listed above whichever less.
 (3) E192 series resistance values are also available. Please contact us for details.
 (4) Duplicated resistance values between E96, E192 and E24 series shall follow E24 Part Numbers. (apply three digit resistance value)

Power Derating Curve

For resistors operated in ambient temperatures above 85 °C, power rating shall be derated in accordance with the figure on the right.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic:

[ERA-6AEB105V](#) [ERA-6AEB5763V](#) [ERA-2AED101X](#) [ERA-2AED102X](#) [ERA-2AED103X](#) [ERA-2AED104X](#) [ERA-2AED111X](#) [ERA-2AED112X](#) [ERA-2AED113X](#) [ERA-2AED121X](#) [ERA-2AED122X](#) [ERA-2AED123X](#) [ERA-2AED131X](#) [ERA-2AED132X](#) [ERA-2AED133X](#) [ERA-2AED151X](#) [ERA-2AED152X](#) [ERA-2AED153X](#) [ERA-2AED161X](#) [ERA-2AED162X](#) [ERA-2AED163X](#) [ERA-2AED181X](#) [ERA-2AED182X](#) [ERA-2AED183X](#) [ERA-2AED201X](#) [ERA-2AED202X](#) [ERA-2AED203X](#) [ERA-2AED221X](#) [ERA-2AED222X](#) [ERA-2AED223X](#) [ERA-2AED241X](#) [ERA-2AED242X](#) [ERA-2AED243X](#) [ERA-2AED271X](#) [ERA-2AED272X](#) [ERA-2AED273X](#) [ERA-2AED301X](#) [ERA-2AED302X](#) [ERA-2AED303X](#) [ERA-2AED331X](#) [ERA-2AED332X](#) [ERA-2AED333X](#) [ERA-2AED361X](#) [ERA-2AED362X](#) [ERA-2AED363X](#) [ERA-2AED391X](#) [ERA-2AED392X](#) [ERA-2AED393X](#) [ERA-2AED431X](#) [ERA-2AED432X](#) [ERA-2AED433X](#) [ERA-2AED470X](#) [ERA-2AED471X](#) [ERA-2AED472X](#) [ERA-2AED473X](#) [ERA-2AED510X](#) [ERA-2AED511X](#) [ERA-2AED512X](#) [ERA-2AED513X](#) [ERA-2AED560X](#) [ERA-2AED561X](#) [ERA-2AED562X](#) [ERA-2AED563X](#) [ERA-2AED620X](#) [ERA-2AED621X](#) [ERA-2AED622X](#) [ERA-2AED623X](#) [ERA-2AED680X](#) [ERA-2AED681X](#) [ERA-2AED682X](#) [ERA-2AED683X](#) [ERA-2AED750X](#) [ERA-2AED751X](#) [ERA-2AED752X](#) [ERA-2AED753X](#) [ERA-2AED820X](#) [ERA-2AED821X](#) [ERA-2AED822X](#) [ERA-2AED823X](#) [ERA-2AED910X](#) [ERA-2AED911X](#) [ERA-2AED912X](#) [ERA-2AED913X](#) [ERA-2AKD100X](#) [ERA-2AKD110X](#) [ERA-2AKD120X](#) [ERA-2AKD130X](#) [ERA-2AKD150X](#) [ERA-2AKD160X](#) [ERA-2AKD180X](#) [ERA-2AKD200X](#) [ERA-2AKD220X](#) [ERA-2AKD240X](#) [ERA-2AKD270X](#) [ERA-2AKD300X](#) [ERA-2AKD330X](#) [ERA-2AKD360X](#) [ERA-2AKD390X](#) [ERA-2AKD430X](#) [ERA-3AEB111V](#)