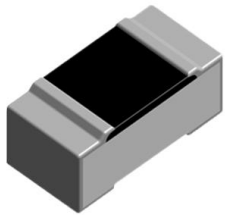


# ERA-1ARW6491C Datasheet

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<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	ERA-1ARW6491C-DG
Manufacturer	<a href="#">Panasonic Electronic Components</a>
Manufacturer Product Number	ERA-1ARW6491C
Description	RES SMD 6.49K OHM 1/20W 0201
Detailed Description	6.49 kOhms $\pm$ 0.05% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Thin Film

This model ERA-1ARW6491C is available at DiGi Electronics.

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## Purchase and inquiry

**Manufacturer Product Number:**

ERA-1ARW6491C

**Series:**

ERA-1A

**Resistance:**

6.49 kOhms

**Power (Watts):**

0.05W, 1/20W

**Features:**

-

**Operating Temperature:**

-55°C ~ 155°C

**Supplier Device Package:**

0201

**Size / Dimension:**

0.024" L x 0.012" W (0.60mm x 0.30mm)

**Number of Terminations:**

2

**Base Product Number:**

ERA-1AR

**Manufacturer:**

Panasonic Electronic Components

**Product Status:**

Obsolete

**Tolerance:**

±0.05%

**Composition:**

Thin Film

**Temperature Coefficient:**

±10ppm/°C

**Package / Case:**

0201 (0603 Metric)

**Ratings:**

-

**Height - Seated (Max):**

0.010" (0.26mm)

**Failure Rate:**

-

## Environmental & Export classification

**RoHS Status:**

ROHS3 Compliant

**ECCN:**

EAR99

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)

**HTSUS:**

8533.21.0030

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

102

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

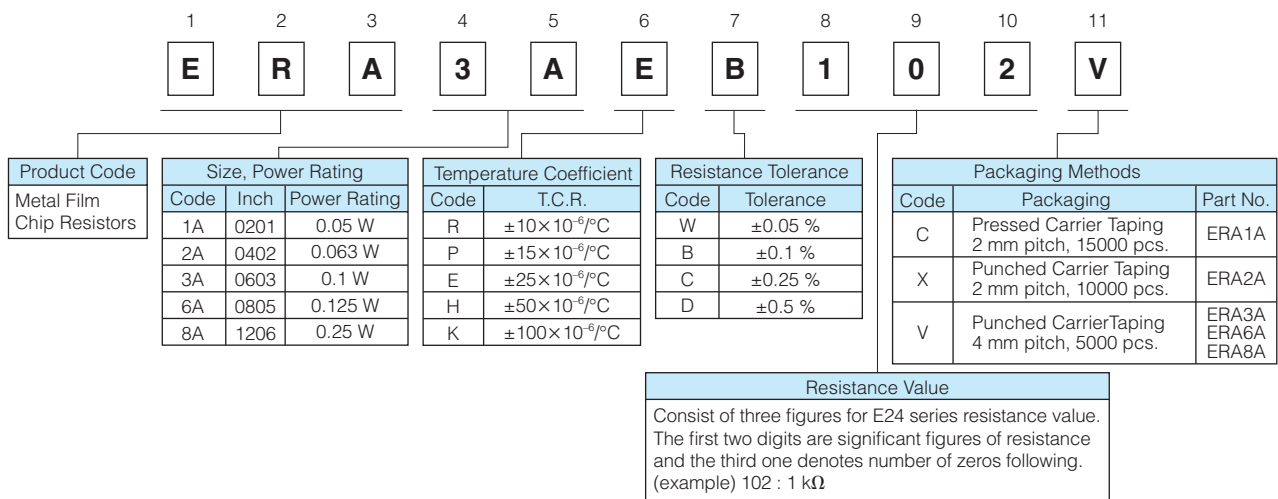
### Features

- High reliability ..... Stable at high temperature and humidity  
(85 °C 85 %RH rated load, Category temperature range : -55 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

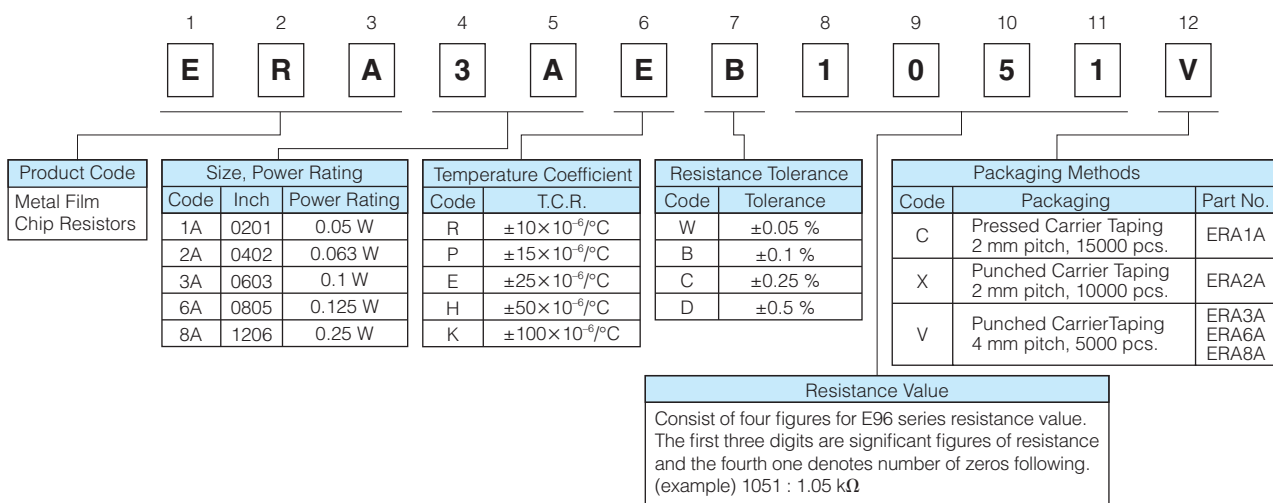
**As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions,**  
Please see Data Files

### Explanation of Part Numbers

● E24 Series

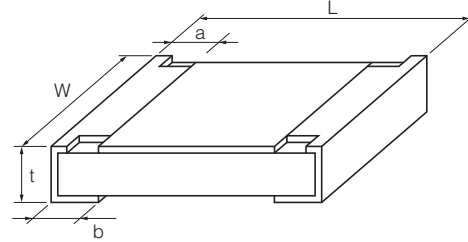
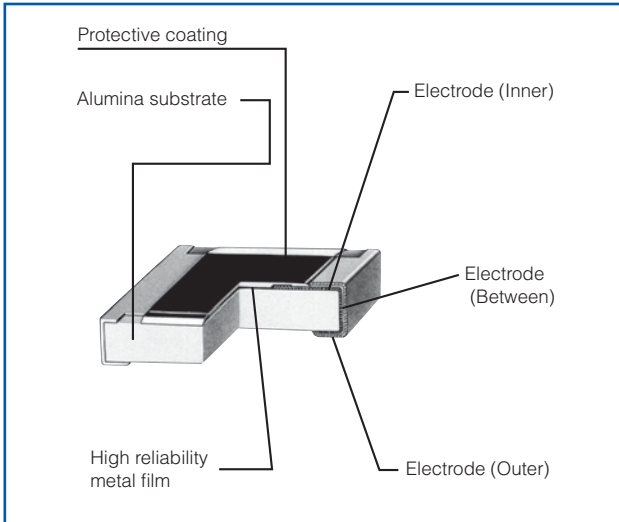


● E96 Series and other Resistance values



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 <sup>±0.03</sup>	0.30 <sup>±0.03</sup>	0.15 <sup>±0.05</sup>	0.15 <sup>±0.05</sup>	0.23 <sup>±0.03</sup>	0.14
ERA2A (0402)	1.00 <sup>±0.10</sup>	0.50 <sup>+0.10 -0.05</sup>	0.15 <sup>±0.10</sup>	0.25 <sup>±0.10</sup>	0.35 <sup>±0.05</sup>	0.6
ERA3A (0603)	1.60 <sup>±0.20</sup>	0.80 <sup>±0.20</sup>	0.30 <sup>±0.20</sup>	0.30 <sup>±0.20</sup>	0.45 <sup>±0.10</sup>	2
ERA6A (0805)	2.00 <sup>±0.20</sup>	1.25 <sup>±0.10</sup>	0.40 <sup>±0.25</sup>	0.40 <sup>±0.25</sup>	0.50 <sup>±0.10</sup>	4
ERA8A (1206)	3.20 <sup>±0.20</sup>	1.60 <sup>+0.05 -0.15</sup>	0.50 <sup>±0.25</sup>	0.50 <sup>±0.25</sup>	0.60 <sup>±0.10</sup>	8

### Ratings

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

(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=√Rated Power × 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 × 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.

