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

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)

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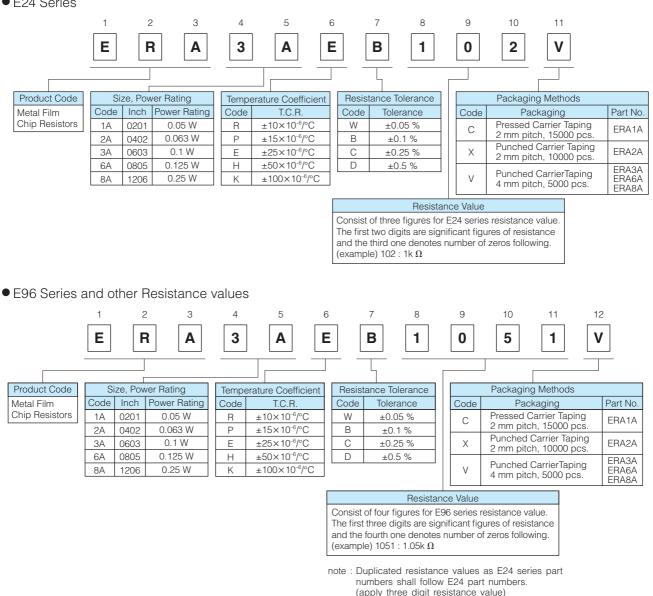
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- High accuracy Small resistance tolerance and Temperature Coefficient of Resistance
- High performance Low current noise, excellent linearity
- Reference Standard IEC 60115-8, JIS C 5201-8, EIAJ RC-2133B
- AEC-Q200 gualified
- RoHS compliant

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

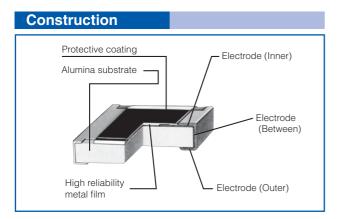
Explanation of Part Numbers

E24 Series

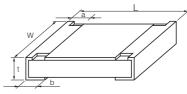


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Panasonic Metal Film (Thin Film) Chip Resistors, High Reliability Type



Dimensions in mm (not to scale)



Part No.		Mass (Weight)				
(inch size)	L	W	а	b	t	[g/1000pcs.]
ERA1A (0201)	$0.60^{\pm 0.03}$	$0.30^{\pm 0.03}$	$0.15^{\pm 0.05}$	$0.15^{\pm 0.05}$	$0.23^{\pm 0.03}$	0.14
ERA2A (0402)						
ERA3A (0603)						
ERA6A (0805)	2.00 ^{±0.20}	1.25 ^{±0.10}	$0.40^{\pm 0.25}$	$0.40^{\pm 0.25}$	$0.50^{\pm 0.10}$	4
ERA8A (1206)	$3.20^{\pm 0.20}$	1.60+0.05	$0.50^{\pm 0.25}$	$0.50^{\pm 0.25}$	$0.60^{\pm 0.10}$	8

Ratings

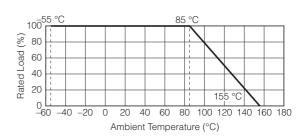
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Part No.	Power Rating	Limiting Element	Maximum	Part No.	Resistance	T.C.R.	Resistance	Category
(inch size)	at 85 °C (W)	Voltage ⁽¹⁾ (V)	Overload Voltage ⁽²⁾ (V)	(detail)	Tolerance (%)	(×10 ⁻⁶ /°C)	Range ⁽³⁾⁽⁴⁾ (Ω)	Temperature Range (°C)
	(• •)	(v)	(v)				(32)	(0)
ERA1A (0201) 0.05				ERA1AEB	±0.1	±25	100 to 10k (E24, E96)	
	25	50	ERA1AEC	±0.25 ±0.25			-	
			ERA1ARC ERA1ARB	±0.25 ±0.1	, 10	100 to 10k (E24, E96)		
				ERA1ARW	±0.1 ±0.05	±10	1k to 10k (E24, E96)	
				ERA2AKD	±0.05 ±0.5	±100	10 to 46.4 (E24, E96)	
ERA2A (0402) 0.063		50	100	ERA2ARD	±0.5	±100	10 10 40.4 (E24, E90)	
				ERA2AED	±0.5 ±0.25	±25 ±15 ±10 ±50	47 to 100k (E24, E96)	
				ERA2AEC	±0.25 ±0.1		47 lu 100k (E24, E90) 	
	0.063			ERA2AEB	±0.1 ±0.25			
				ERA2APC	±0.25 ±0.1		200 to 47k (E24, E96)	
				ERA2AFB	±0.1 ±0.25			
				ERA2ARB	±0.23 ±0.1		200 to 47k (E24, E96)	
				ERA3AHD	±0.1 ±0.5		10 to 46.4 (E24, E96)	
				ERASAED	±0.5	±50	10 10 40.4 (L24, L90)	
ERA3A (0603) 0.1		150	ERASAED	±0.5 ±0.25	±25	47 to 330k (E24, E96)	_	
	75		ERAJAEB	±0.23		47 10 330K (L24, L90)		
			ERA3APC	±0.1	±15			
			ERA3APB	±0.23 ±0.1		470 to 100k (E24, E96)		
			ERA3ARC	±0.1				
				ERA3ARB	±0.23	±10 ±50 ±25	1k to 100k (E24, E96)	<u>)</u>
				ERA3ARW	±0.05		IN 10 100K (L24, L30)	
ERA6A (0805) 0.125				ERA6AHD	±0.5		10 to 46.4 (E24, E96)	
				ERA6AED	±0.5		10 10 40.4 (224, 200)	
				ERA6AEC	±0.25		47 to 1M (E24, E96)	
				ERA6AEB	±0.1			
	100	200	ERA6APC	±0.25			1	
	01120			ERA6APB	±0.1	±15	470 to 100k (E24, E96)	-
				ERA6ARC	±0.25	±10		
				ERA6ARB	±0.1		1k to 100k (E24, E96)	
				ERA6ARW	±0.05			
ERA8A (1206) 0.25		150	300	ERA8AHD	±0.5	±50	10 to 46.4 (E24, E96)	
				ERA8AED	±0.5	±25		
				ERA8AEC	±0.25		47 to 1M (E24, E96)	
				ERA8AEB	±0.1			
	0.25			ERA8APC	±0.25	±15		
				ERA8APB	±0.1		470 to 100k (E24, E96)	
				ERA8ARC	±0.25	±10		
				ERA8ARB	±0.1		1k to 100k (E24, E96)	
				ERA8ARW	±0.05		,,	
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(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)

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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.



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