Metal Film (Thin Film) Chip Resistors, High Reliability Type 0402, 0603, 0805, 1206

25-06195

100

102

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

- Features
- High reliabilityStable at high temperature and humidity

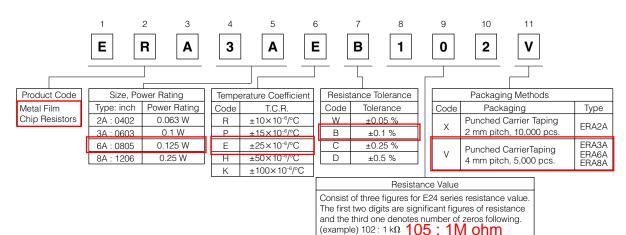
(85 °C 85 %RH rated load, Category temperature range: -55 to +155 °C)

- 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
- RoHS compliant

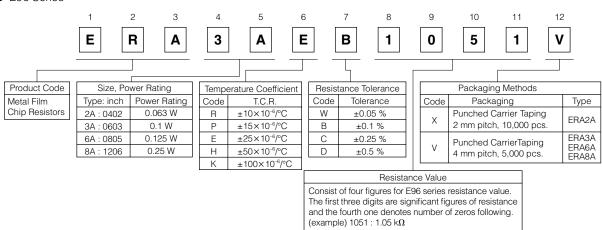
■ Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions Please see Data Files

■ Explanation of Part Numbers

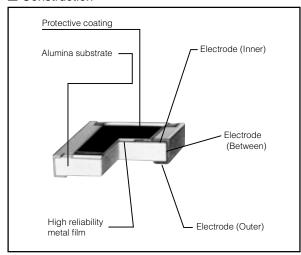
• E24 Series



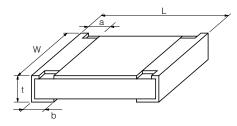
E96 Series



■ Construction



■ Dimensions in mm (not to scale)



Туре		Mass (Weight)					
(inch size)	L	W	а	b	t	[g/1000 pcs.]	
ERA2A (0402)	1.00 ^{±0.10}	0.50+0.10	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+0.05	0.50 ^{±0.25}	0.50 ^{±0.25}	0.60 ^{±0.10}	8	

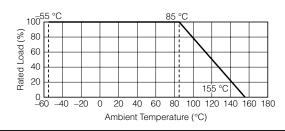
■ Ratings

- Hattings	,							
Type (inch size)	Power Rating at 85 °C (W)	Limiting Element Voltage ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Type (detail)	Resistance Tolerance (%)	T.C.R. (×10 ⁻⁶ /°C)	Resistance Range $^{ ext{(3)}}$ (Ω)	Category Temperature Range (°C)
ERA2A (0402)	0.063	25	50	ERA2AKD	±0.5	±100	10 to 46.4 (E24, E96)	-55 to +155
				ERA2AED	±0.5	±25	47 to 100 k (E24, E96)	
				ERA2AEB	±0.1		, , ,	
				ERA2APB	±0.1	±15	200 to 47 k (E24, E96)	
				ERA2ARC	±0.25	±10	200 to 47 k (E24, E96)	
				ERA2ARB	±0.1		200 to 47 k (L24, L90)	
ERA3A (0603)	0.1	75	150	ERA3AHD	±0.5	±50	10 to 46.4 (E24, E96)	
				ERA3AED		±25	47 to 330 k (E24, E96)	
				ERA3AEB	±0.1		, , ,	
				ERA3APB		±15	470 to 100 k (E24, E96)	
				ERA3ARB		±10	1 k to 100 k (E24, E96)	
				ERA3ARW	±0.05		T K to 100 K (LZ+, L30)	
ERA6A (0805)	0.125	100	200	ERA6AHD			10 to 46.4 (E24, E96)	
				ERA6AED		±25	47 to 1 M (E24, E96)	
				ERA6AEB				
				ERA6APB		±15	470 to 100 k (E24, E96)	
				ERA6ARB		±10	1 k to 100 k (E24, E96)	
				ERA6ARW			, , ,	
ERA8A (1206)	0.25	150	300	ERA8AHD		±50	10 to 46.4 (E24, E96)	
				ERA8AED		±25	47 to 1 M (E24, E96)	_
				ERA8AEB			, ,	
				ERA8APB		±15	470 to 100 k (E24, E96)	
				ERA8ARB		±10	1 k to 100 k (E24, E96)	
				ERA8ARW	±0.05			

 ⁽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 × Power Rating or max. Overload Voltage listed above

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.



whichever less.

⁽³⁾ E192 series resistance values are also available. Please contact us for details.