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

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

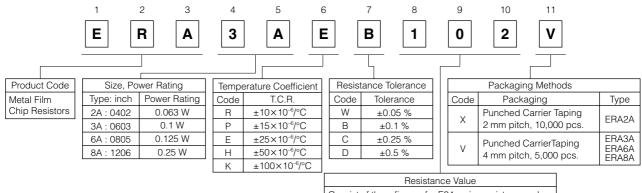
• Reference Standard IEC 60115-8, JIS C 5201-8, EIAJ RC-2133B

RoHS compliant

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

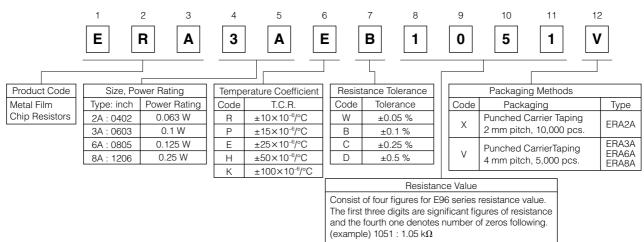
■ Explanation of Part Numbers

• E24 Series



Consist of three figures for E24 series resistance value. The first two digits are significant figures of resistance and the third one denotes number of zeros following. (example) 102 : 1 $k\Omega$

• E96 Series and other Resistance values



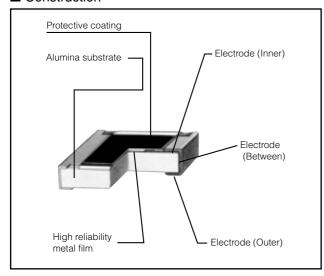
note: Duplicated resistance values as E24 series part numbers shall follow E24 part numbers. (apply three digit resistance value)

8

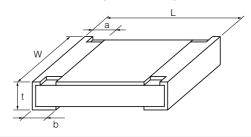
102

102

■ 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	

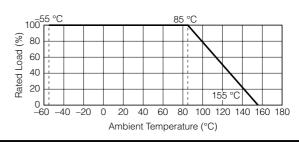
■ Ratings

Trainings										
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 $^{^{(3)(4)}}$ (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	-		200 to 47 k (L24, L90)			
ERA3A (0603)		75	150	ERA3AHD	±0.5	±50	10 to 46.4 (E24, E96)			
				ERA3AED	±0.5	±25	47 to 330 k (E24, E96)			
	0.1			ERA3AEB	_					
	0.1			ERA3APB	±0.1	±15	470 to 100 k (E24, E96)			
				ERA3ARB		±10	1 k to 100 k (E24, E96)			
				ERA3ARW	±0.05					
ERA6A (0805)		100	200	ERA6AHD	±0.5	±50	10 to 46.4 (E24, E96)	-55 to +155		
				ERA6AED		±25	47 to 1 M (E24, E96)			
	0.125			ERA6AEB	±0.1		47 to 1 W (L24, L30)			
	0.125			ERA6APB	-	±15	470 to 100 k (E24, E96)			
				ERA6ARB		±10	1 k to 100 k (E24, E96)	6)		
				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 1 M (E24, E96)			
				ERA8AEB	-		, , ,			
				ERA8APB	±0.1	±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.

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.



⁽²⁾ Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV=2.5 × Power Rating 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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AR03BTC0390 AR03BTC1102 AR03BTC1103 AR03BTC1201 AR03BTC2000 AR03BTC2201 AR03BTC2203 AR03BTC2490

AR03BTC3003 AR03BTC3302 AR03BTC3901 AR03BTC4220 AR03BTC4223N AR03BTC5602 AR03BTC5603 AR03BTC5900

AR03BTC7500 AR03BTC9100 AR03BTC9103 AR03BTC9760 AR05BTC0280 AR05BTC1000 AR05BTC1100 AR05BTC1201

AR05BTC1202 AR05BTC1300 AR05BTC14R3 AR05BTC1500 AR05BTC1523 AR05BTC1620 AR05BTC1623

AR05BTC1760 AR05BTC1800 AR05BTC1823
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