

Metal Film (Thin Film) Chip Resistors, High Sound Quality Type

Type: **ERA 2H**

Features

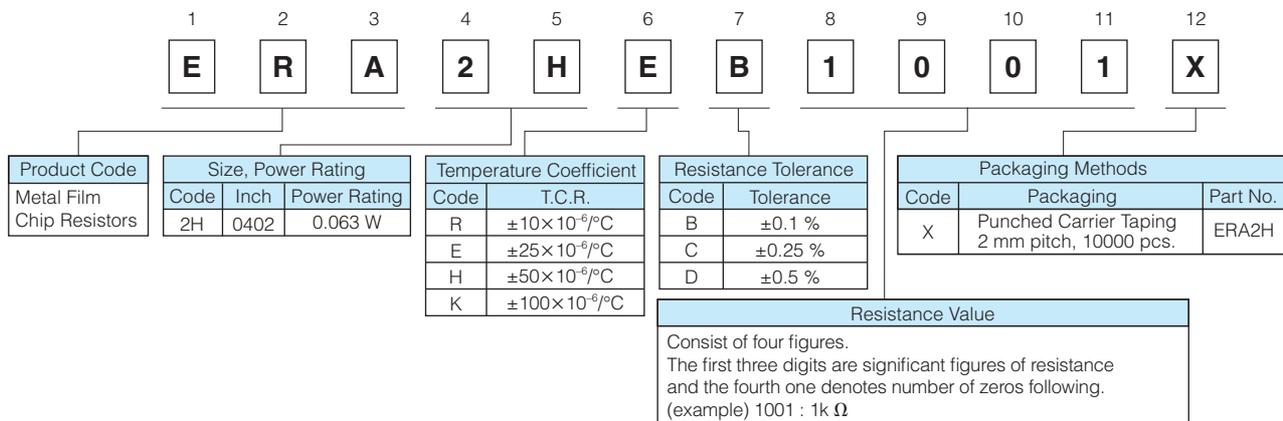
- High sound quality resistor Low distortion and high-quality sound by selected material and optimized structure
- High accuracy Small resistance tolerance and Temperature Coefficient of Resistance
- High performance Low current noise, excellent linearity
- Reference Standard IEC 60115-8, JIS C 5201-8, EIAJ RC-2133B
- RoHS compliant, Pb free, Halogen free

Recommended Applications

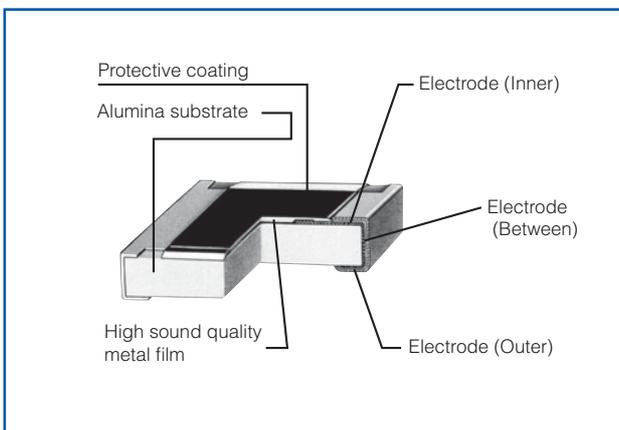
- Audio amplifier circuit, Smartphone (Hi-fi audio), portable audio player, portable DAC amplifier

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

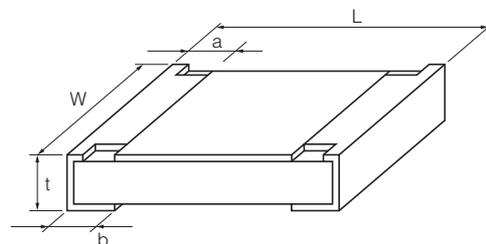
Explanation of Part Numbers



Construction



Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)					Mass (Weight) [g/1000pcs.]
	L	W	a	b	t	
ERA2H (0402)	1.00 ± 0.10	0.50 $^{+0.10}_{-0.05}$	0.20 ± 0.10	0.25 ± 0.10	0.35 ± 0.05	0.6

Ratings

Part No. (inch size)	Power Rating at 70 °C (W)	Limiting Element Voltage ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Part No. (detail)	Resistance Tolerance (%)	T.C.R. ($\times 10^{-6}/^{\circ}\text{C}$)	Resistance Range ⁽³⁾ (Ω)	Category Temperature Range ($^{\circ}\text{C}$)
ERA2H (0402)	0.063	25	50	ERA2HKD	± 0.5	± 100	10 to 46.4 (E24, E96)	-55 to +125
				ERA2HHD	± 0.5	± 50	22 to 46.4 (E24, E96)	
				ERA2HEC	± 0.25	± 25	47 to 20k (E24, E96)	
				ERA2HEB	± 0.1			
				ERA2HRC	± 0.25	± 10		
				ERA2HRB	± 0.1			

- (1) Rated Continuous Working Voltage (RCWV) shall be determined from $\text{RCWV} = \sqrt{\text{Rated Power} \times \text{Resistance Values}}$, or Limiting Element Voltage listed above, whichever less.
 (2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from $\text{SOTV} = 2.5 \times \text{RCWV}$ or max. Overload Voltage listed above whichever less.
 (3) Other resistance except for E24 & E96 series values are also available. Please contact us for details.

Power Derating Curve

For resistors operated in ambient temperatures above 70 °C, power rating shall be derated in accordance with the figure on the right.

