

## Anti-Sulfurated Chip Resistor Array

Type: **EXB U24, U28, U2H, U34, U38**

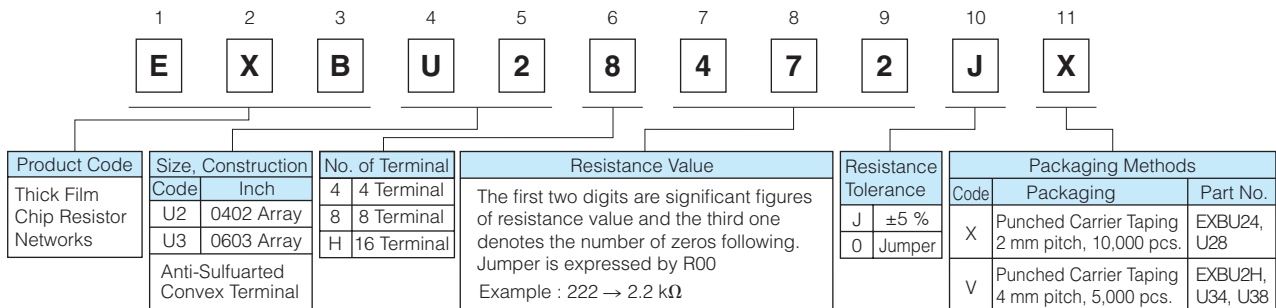


### Features

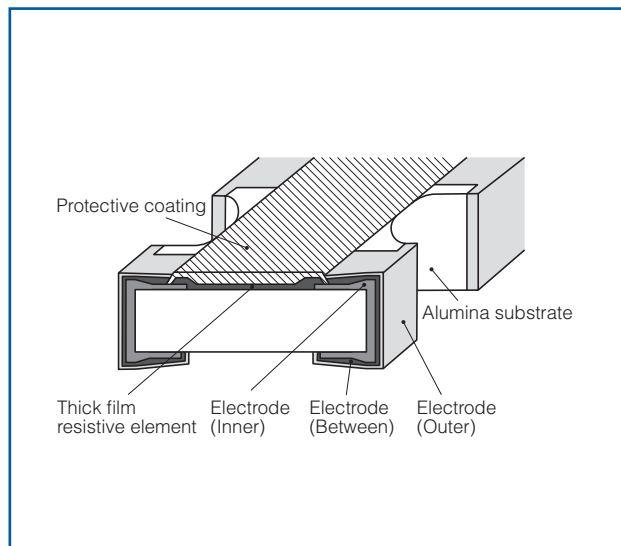
- High resistance to sulfurization achieved by adopting an Ag-Pd-based inner electrode
- High density
  - 2 resistors in 1.0 mm × 1.0 mm size / 0404 inch size : EXBU24
  - 4 resistors in 2.0 mm × 1.0 mm size / 0804 inch size : EXBU28
  - 8 resistors in 3.8 mm × 1.6 mm size / 1506 inch size : EXBU2H
  - 2 resistors in 1.6 mm × 1.6 mm size / 0606 inch size : EXBU34
  - 4 resistors in 3.2 mm × 1.6 mm size / 1206 inch size : EXBU38
- Improvement of placement efficiency
  - Placement efficiency of Chip Resistor Array is two, four or eight times of the flat type chip resistor
- Reference Standard: IEC 60115-9, JIS C 5201-9, EIAJ RC-2129
- AEC-Q200 qualified
- RoHS compliant

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

### Explanation of Part Numbers

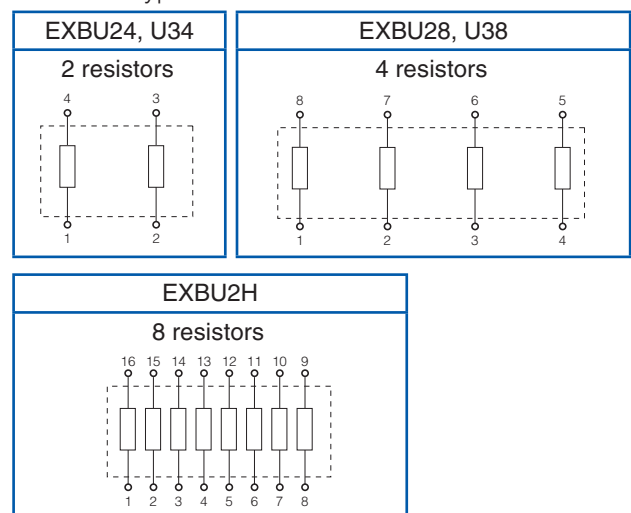


### Construction

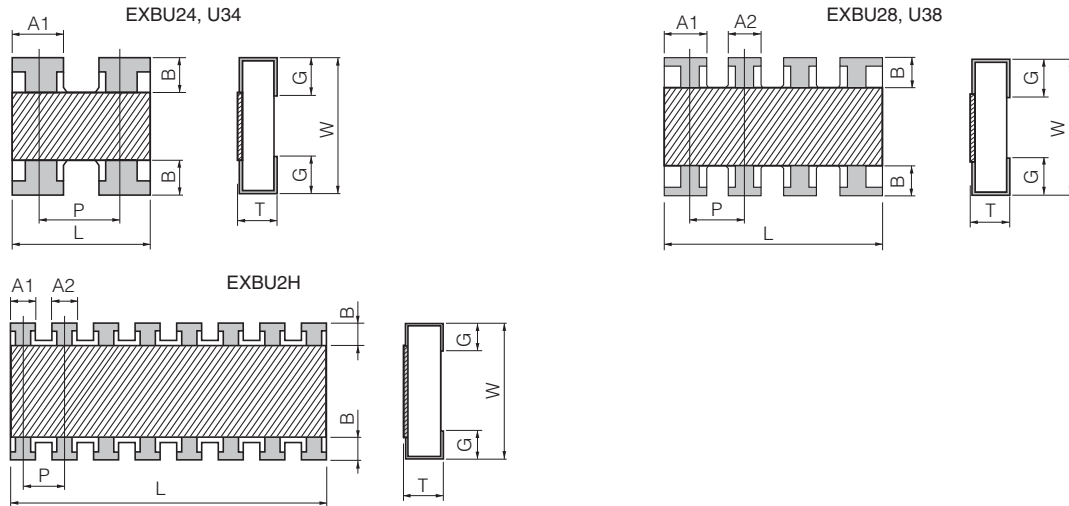


### Schematics

- Isolated type



## Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)								Mass (Weight) [g/1000 pcs.]
	L	W	T	A1	A2	B	P	G	
EXBU24 (0402×2)	1.00 <sup>±0.10</sup>	1.00 <sup>±0.10</sup>	0.35 <sup>±0.10</sup>	0.40 <sup>±0.10</sup>	—	0.18 <sup>±0.10</sup>	(0.65)	0.25 <sup>±0.10</sup>	1.2
EXBU28 (0402×4)	2.00 <sup>±0.10</sup>	1.00 <sup>±0.10</sup>	0.35 <sup>±0.10</sup>	0.45 <sup>±0.10</sup>	0.35 <sup>±0.10</sup>	0.20 <sup>±0.10</sup>	(0.50)	0.25 <sup>±0.10</sup>	2.0
EXBU2H (0402×8)	3.80 <sup>±0.10</sup>	1.60 <sup>±0.10</sup>	0.45 <sup>±0.10</sup>	0.35 <sup>±0.10</sup>	0.35 <sup>±0.10</sup>	0.30 <sup>±0.10</sup>	(0.50)	0.30 <sup>±0.10</sup>	9.0
EXBU34 (0603×2)	1.60 <sup>±0.20</sup>	1.60 <sup>±0.15</sup>	0.50 <sup>±0.10</sup>	0.65 <sup>±0.15</sup>	—	0.30 <sup>±0.20</sup>	(0.80)	0.30 <sup>±0.20</sup>	3.5
EXBU38 (0603×4)	3.20 <sup>±0.20</sup>	1.60 <sup>±0.15</sup>	0.50 <sup>±0.10</sup>	0.65 <sup>±0.15</sup>	0.45 <sup>±0.15</sup>	0.30 <sup>±0.20</sup>	(0.80)	0.35 <sup>±0.20</sup>	7.0

( ) Reference

## Ratings

Item	Specifications	
Resistance Range	10 Ω to 1 MΩ E24 series	
Resistance Tolerance	J: ±5 %	
Number of Terminals	U24, U34	4 terminal
	U28, U38	8 terminal
	U2H	16 element
Number of Resistors	U24, U34	2 element
	U28, U38	4 element
	U2H	8 element
Power Rating at 70 °C	U24, U28, U34, U38	0.063 W/element
	U2H	0.063 W/element (0.25 W/package)

Item	Specifications		
Limiting Element Voltage <sup>(1)</sup>	U2H	25 V	
	U24, U28, U34, U38	50 V	
Max. Overload Voltage <sup>(2)</sup>	U2H	50 V	
	U24, U28, U34, U38	100 V	
T.C.R.	±200×10 <sup>-6</sup> /°C		
Category Temperature Range	-55 °C to 125 °C		
Jumper Array	Rated Current	U24, U28, U2H, U34, U38	1 A
	Max. Overload Current	U24, U28, U2H, U34, U38	2 A

(1) Rated Continuous Working Voltage (RCWV) shall be determined from  $RCWV = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$ , or Limiting Element Voltage listed above, whichever less.

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from  $SOTV = 2.5 \times RCWV$  or max. Overload Voltage listed above whichever less.

### 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.

