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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Anti-Sulfurated Chip Resistor Array

Type: **EXB U14, U18, U24, U28, U2H, U34, U38**

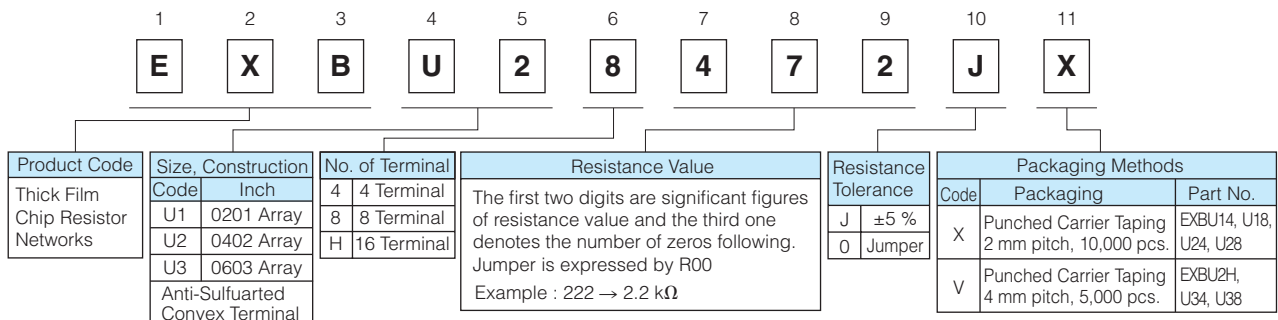


### Features

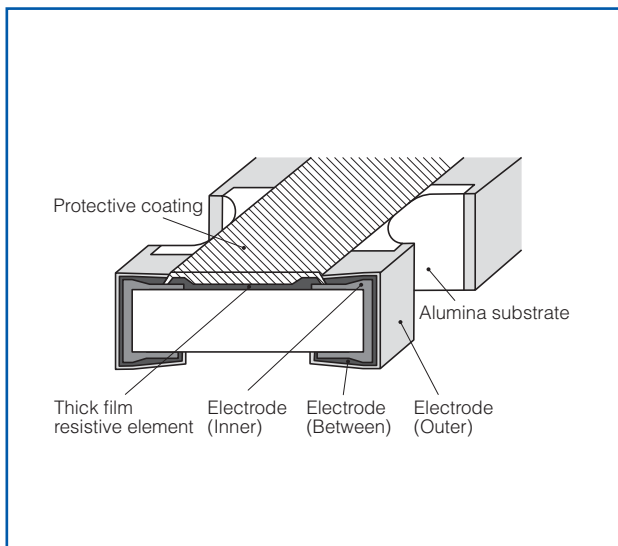
- High resistance to sulfurization achieved by adopting an Ag-Pd-based inner electrode
- High density
  - 2 resistors in 0.8 mm × 0.6 mm size / 0302 inch size : EXBU14
  - 4 resistors in 1.4 mm × 0.6 mm size / 0502 inch size : EXBU18
  - 2 resistors in 1.0 mm × 1.0 mm size / 0404 inch size : EXBU24
  - 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

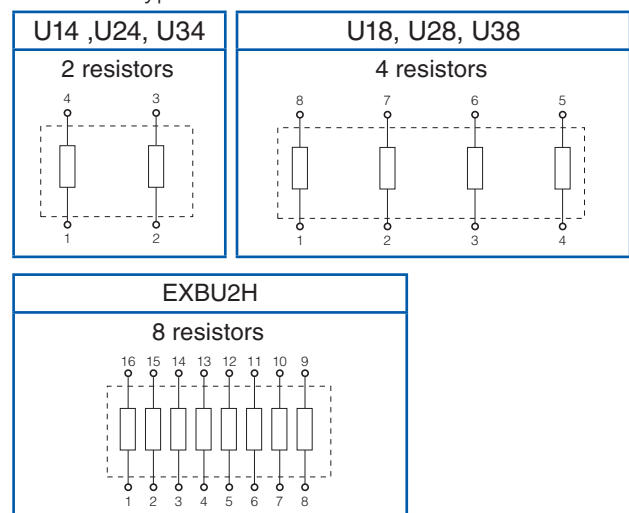


### Construction

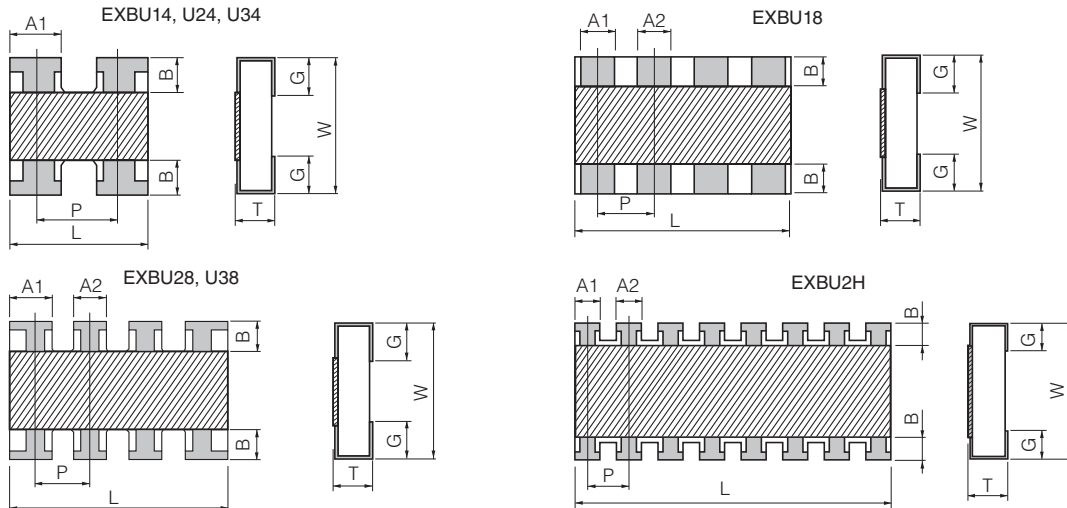


### Schematics

- 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	
EXBU14 (0201×2)	0.80 <sup>+0.10</sup>	0.60 <sup>+0.10</sup>	0.35 <sup>+0.10</sup>	0.35 <sup>+0.10</sup>	—	0.15 <sup>+0.10</sup>	(0.50)	0.15 <sup>+0.10</sup>	0.5
EXBU18 (0201×4)	1.40 <sup>+0.10</sup>	0.60 <sup>+0.10</sup>	0.35 <sup>+0.10</sup>	0.20 <sup>+0.10</sup>	0.20 <sup>+0.10</sup>	0.10 <sup>+0.10</sup>	(0.40)	0.20 <sup>+0.10</sup>	1.0
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	U14, U24, U34	4 terminal
	U18, U28, U38	8 terminal
	U2H	16 element
Number of Resistors	U14, U24, U34	2 element
	U18, U28, U38	4 element
	U2H	8 element
Power Rating at 70 °C	U14	0.031 W/element
	U18	0.031 W/element (0.1 W/package)
	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>	U14, U18	12.5 V	
	U2H	25 V	
	U24, U28, U34, U38	50 V	
Max. Overload Voltage <sup>(2)</sup>	U14, U18	25 V	
	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.

