

Anti-Sulfurated Chip Resistor Array

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

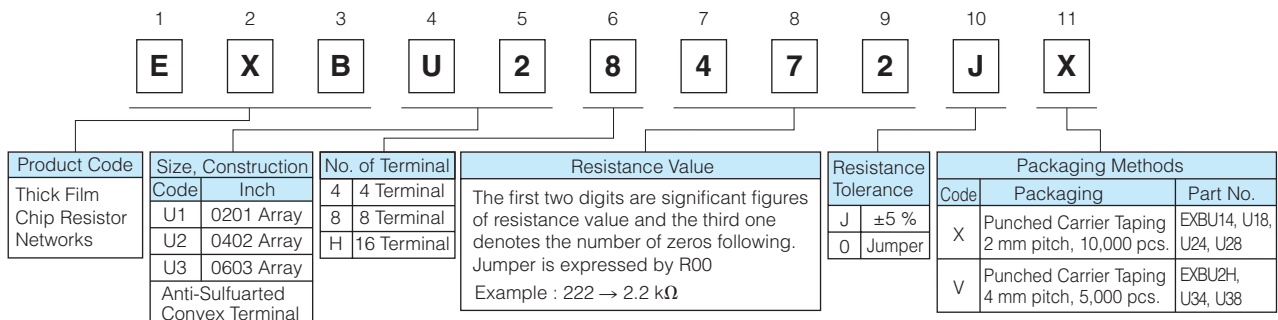


Features

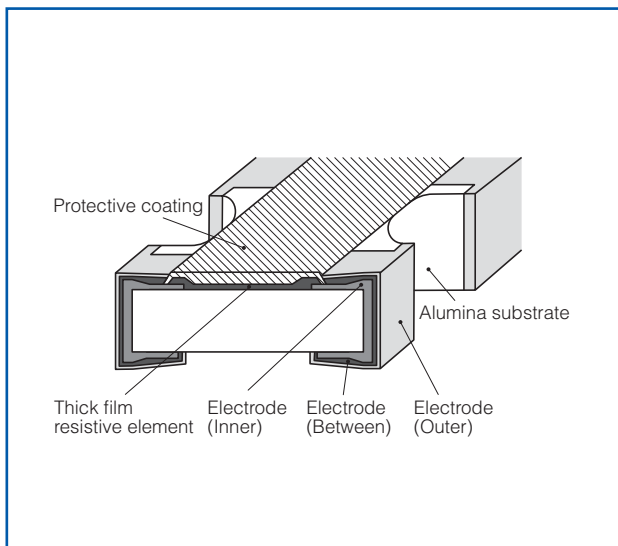
- High resistance to sulfurization achieved by adopting an Ag-Pd-based inner electrode
- High density
 - 2 resistors in 0.8 mm × 0.6 mm size / 0302 inch size : EXBU14
 - 4 resistors in 1.4 mm × 0.6 mm size / 0502 inch size : EXBU18
 - 2 resistors in 1.0 mm × 1.0 mm size / 0404 inch size : EXBU24
 - 4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

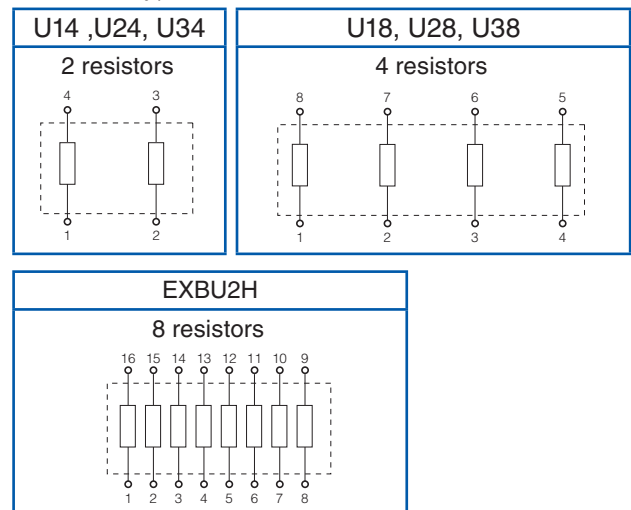


Construction

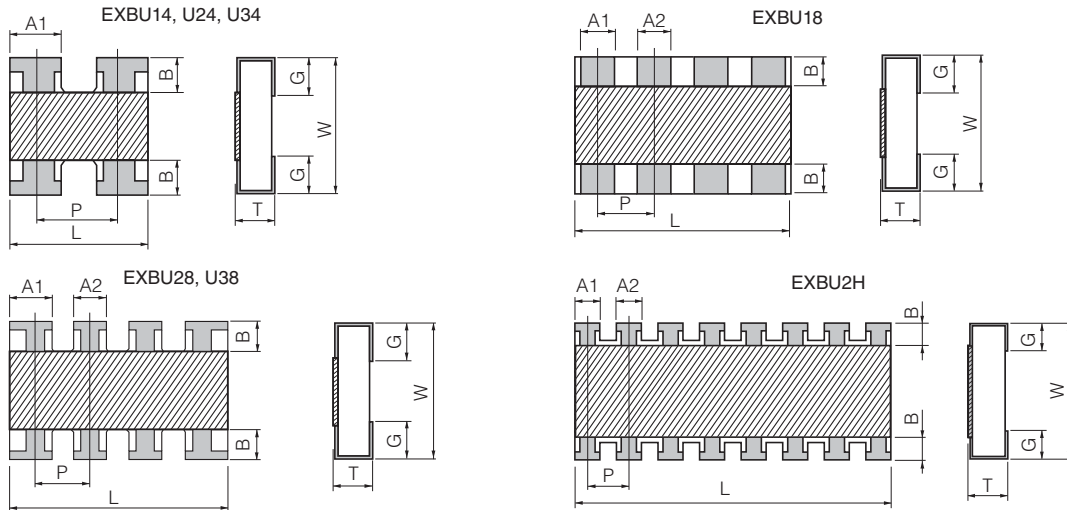


Schematics

- 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 ^{+0.10}	0.60 ^{+0.10}	0.35 ^{+0.10}	0.35 ^{+0.10}	—	0.15 ^{+0.10}	(0.50)	0.15 ^{+0.10}	0.5
EXBU18 (0201×4)	1.40 ^{+0.10}	0.60 ^{+0.10}	0.35 ^{+0.10}	0.20 ^{+0.10}	0.20 ^{+0.10}	0.10 ^{+0.10}	(0.40)	0.20 ^{+0.10}	1.0
EXBU24 (0402×2)	1.00 ^{+0.10}	1.00 ^{+0.10}	0.35 ^{+0.10}	0.40 ^{+0.10}	—	0.18 ^{+0.10}	(0.65)	0.25 ^{+0.10}	1.2
EXBU28 (0402×4)	2.00 ^{+0.10}	1.00 ^{+0.10}	0.35 ^{+0.10}	0.45 ^{+0.10}	0.35 ^{+0.10}	0.20 ^{+0.10}	(0.50)	0.25 ^{+0.10}	2.0
EXBU2H (0402×8)	3.80 ^{+0.10}	1.60 ^{+0.10}	0.45 ^{+0.10}	0.35 ^{+0.10}	0.35 ^{+0.10}	0.30 ^{+0.10}	(0.50)	0.30 ^{+0.10}	9.0
EXBU34 (0603×2)	1.60 ^{+0.20}	1.60 ^{+0.15}	0.50 ^{+0.10}	0.65 ^{+0.15}	—	0.30 ^{+0.20}	(0.80)	0.30 ^{+0.20}	3.5
EXBU38 (0603×4)	3.20 ^{+0.20}	1.60 ^{+0.15}	0.50 ^{+0.10}	0.65 ^{+0.15}	0.45 ^{+0.15}	0.30 ^{+0.20}	(0.80)	0.35 ^{+0.20}	7.0

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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 ⁽¹⁾	U14, U18	12.5 V	
	U2H	25 V	
	U24, U28, U34, U38	50 V	
Max. Overload Voltage ⁽²⁾	U14, U18	25 V	
	U2H	50 V	
	U24, U28, U34, U38	100 V	
T.C.R.	±200×10 ⁻⁶ /°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 (RCWW) shall be determined from $RCWW = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$, or Limiting Element Voltage listed above, whichever less.

(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from $SOTV = 2.5 \times RCWW$ 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.

