

Anti-Sulfurated Chip Resistor Array

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



Features

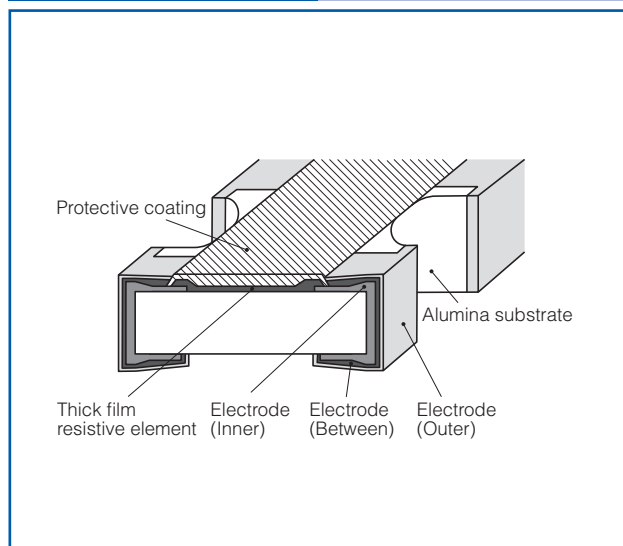
- High resistance to sulfurization achieved by adopting an Ag-Pd-based inner electrode
- High density
 - 2 resistors in 1.0 mm × 1.0 mm size / 0404 inch size : EXBU24
 - 4 resistors in 2.0 mm × 1.0 mm size / 0804 inch size : EXBU28
 - 8 resistors in 3.8 mm × 1.6 mm size / 1506 inch size : EXBU2H
 - 2 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

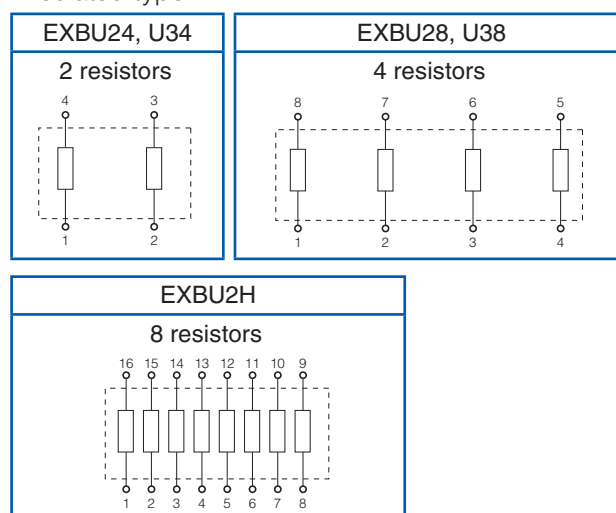
	1	2	3	4	5	6	7	8	9	10	11
	E	X	B	U	2	8	4	7	2	J	X
Product Code	Size, Construction		No. of Terminal	Resistance Value				Resistance Tolerance	Packaging Methods		
Thick Film Chip Resistor Networks	Code	Inch	4 4 Terminal	The first two digits are significant figures of resistance value and the third one denotes the number of zeros following. Jumper is expressed by R00 Example : 222 → 2.2 kΩ				J ±5 %	Code	Packaging	Part No.
	U2	0402 Array	8 8 Terminal					X	Punched Carrier Taping 2 mm pitch, 10,000 pcs.	EXBU24, U28	
	U3	0603 Array	H 16 Terminal					0 Jumper	V	Punched Carrier Taping 4 mm pitch, 5,000 pcs.	EXBU2H, U34, U38
	Anti-Sulfurated Convex Terminal										

Construction

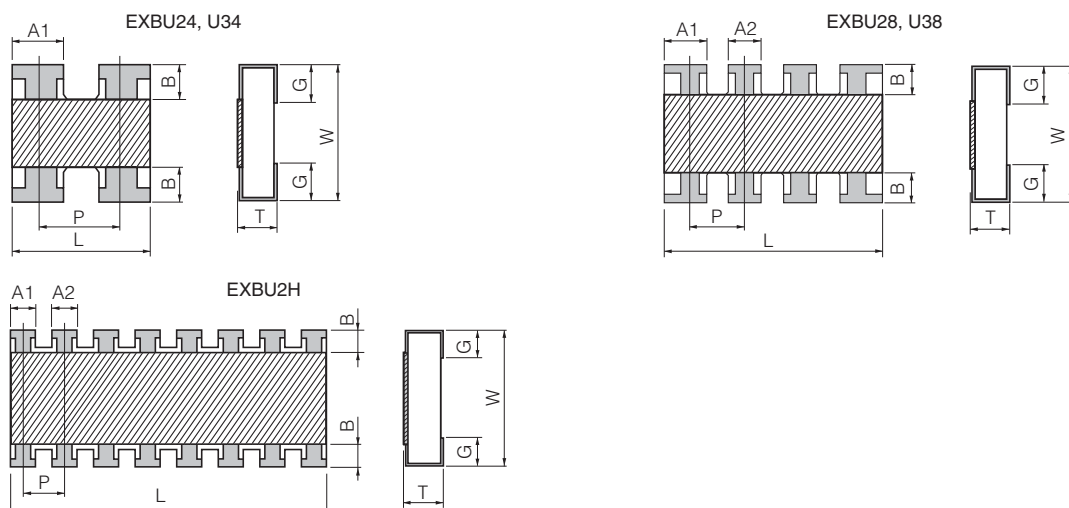


Schematics

- 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 ^{±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

() 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)

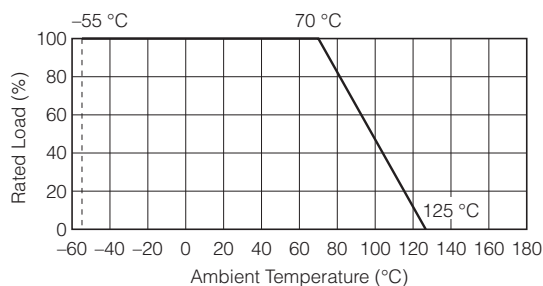
Item		Specifications
Limiting Element Voltage ⁽¹⁾	U2H	25 V
	U24, U28, U34, U38	50 V
Max. Overload Voltage ⁽²⁾	U2H	50 V
	U24, U28, U34, U38	100 V
T.C.R.		±200×10 ⁻⁶ /°C
Category Temperature Range		-55 °C to 125 °C
Jumper Array	Rated Current	U24, U28, U2H, U34, U38 1 A
	Max. Overload Current	U24, U28,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



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Panasonic:

EXB-U28820JX	EXB-U28430JX	EXB-U28510JX	EXB-U28620JX	EXB-U28360JX	EXB-U2H910JV	EXB-U24112JX
EXB-U24622JX	EXB-U24681JX	EXB-U24621JX	EXB-U24911JX	EXB-U24113JX	EXB-U28270JX	EXB-U24160JX
EXB-U24202JX	EXB-U24561JX	EXB-U24912JX	EXB-U24750JX	EXB-U24822JX	EXB-U24560JX	EXB-U24564JX
EXB-U24221JX	EXB-U24110JX	EXB-U24361JX	EXB-U24390JX	EXB-U24111JX	EXB-U24223JX	EXB-U24241JX
EXB-U24821JX	EXB-U24330JX	EXB-U24752JX	EXB-U24431JX	EXB-U24474JX	EXB-U24102JX	EXB-U24183JX
EXB-U24150JX	EXB-U24224JX	EXB-U24301JX	EXB-U24392JX	EXB-U24271JX	EXB-U24434JX	EXB-U24273JX
EXB-U24123JX	EXB-U24562JX	EXB-U24162JX	EXB-U24302JX	EXB-U24331JX	EXB-U24130JX	EXB-U24684JX
EXB-U24430JX	EXB-U24514JX	EXB-U24754JX	EXB-U28390JX	EXB-U24182JX	EXB-U24240JX	EXB-U28470JX
EXB-U24101JX	EXB-U24120JX	EXB-U24242JX	EXB-U24300JX	EXB-U24200JX	EXB-U24204JX	EXB-U24910JX
EXB-U24913JX	EXB-U24R000X	EXB-U24222JX	EXB-U24682JX	EXB-U24753JX	EXB-U24134JX	EXB-U24364JX
EXB-U24512JX	EXB-U24433JX	EXB-U24472JX	EXB-U24513JX	EXB-U24623JX	EXB-U24824JX	EXB-U28220JX
EXB-U28330JX	EXB-U24105JX	EXB-U24510JX	EXB-U24161JX	EXB-U24303JX	EXB-U24332JX	EXB-U24394JX
EXB-U24820JX	EXB-U24563JX	EXB-U24680JX	EXB-U24164JX	EXB-U24203JX	EXB-U24270JX	EXB-U24274JX
EXB-U24393JX	EXB-U24432JX	EXB-U24471JX	EXB-U24152JX	EXB-U24391JX	EXB-U24151JX	EXB-U24154JX
EXB-U24163JX	EXB-U24244JX					