

Chip Resistor Array

Type: **EXB1 : 0201 Array**
EXB2 : 0402 Array
EXB3 : 0603 Array
EXBN : 0402 Array
EXBV : 0603 Array
EXBS : 0805 Array

■ Features

● High density

- 2 resistors in 0.8 mm × 0.6 mm size (EXB14V)
- 4 resistors in 1.4 mm × 0.6 mm size (EXB18V)
- 2 resistors in 1.0 mm × 1.0 mm size (EXB24V)
- 4 resistors in 2.0 mm × 1.0 mm size (EXB28V, N8V)
- 8 resistors in 3.8 mm × 1.6 mm size (EXB2HV)
- 2 resistors in 1.6 mm × 1.6 mm size (EXB34V, V4V)
- 4 resistors in 3.2 mm × 1.6 mm size (EXB38V, V8V)
- 4 resistors in 5.1 mm × 2.2 mm size (EXBS8V)

● Improvement of placement efficiency

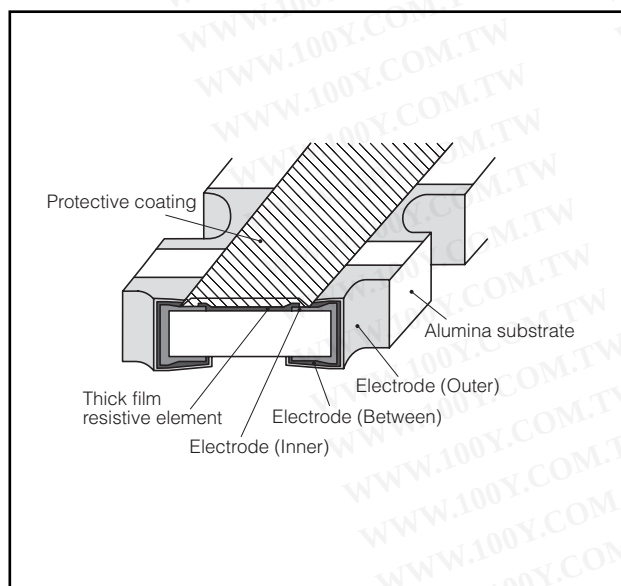
Placement efficiency of Chip Resistor Array is two, four or eight times of the flat type chip resistor

● Reference Standard...IEC 60115-9, JIS C 5201-9, EIAJ RC-2129

■ Explanation of Part Numbers

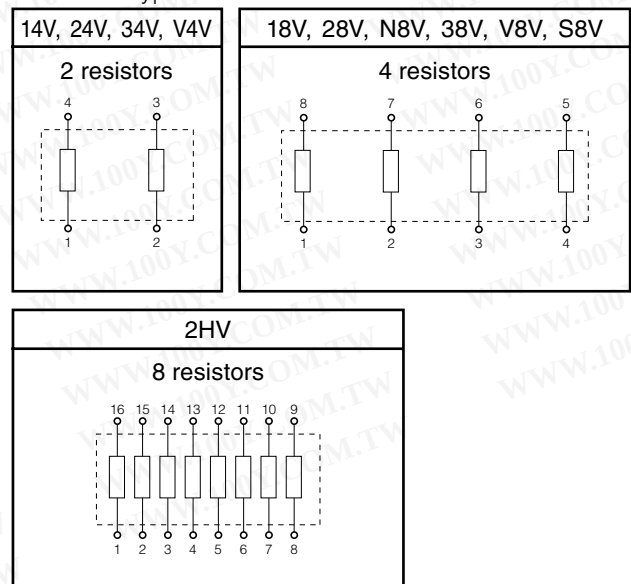
1	2	3	4	5	6	7	8	9	10	11
E	X	B	V	8	V	4	7	2	J	V
Product Code	Chip Resistor Array Type: inch			No. of Terminal	Schematics	Resistance Value		Resistance Tolerance	Packaging Methods	
Thick Film	1 0201 Array			4 4 Terminal	V Isolated type	The first two digits are significant figures of resistance value and the third one denotes the number of zeros following. Jumper is expressed by R00 Example : 222 → 2.2 kΩ		J ±5 % 0 Jumper	Code	Packaging
Chip Resistor Networks	2 0402 Array Convex Terminal			8 8 Terminal					Nil	Embossed Carrier Taping 4 mm pitch, 2,500 pcs.
	3 0603 Array Convex Terminal			H 16 Terminal					X	Punched Carrier Taping 2 mm pitch, 10,000 pcs.
	N 0402 Array Concave Terminal								V	Punched Carrier Taping 4 mm pitch, 5,000 pcs.
	V 0603 Array Concave Terminal									
	S 0805 Array									

■ Construction (Example : Concave Terminal)



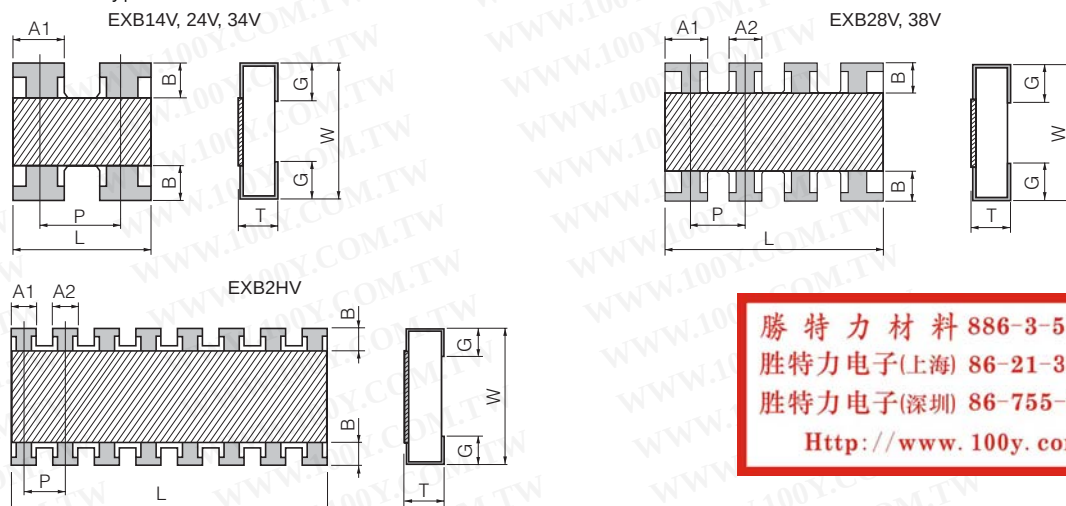
■ Schematics

● Isolated type



■ Dimensions in mm (not to scale)

(1) Convex Terminal type

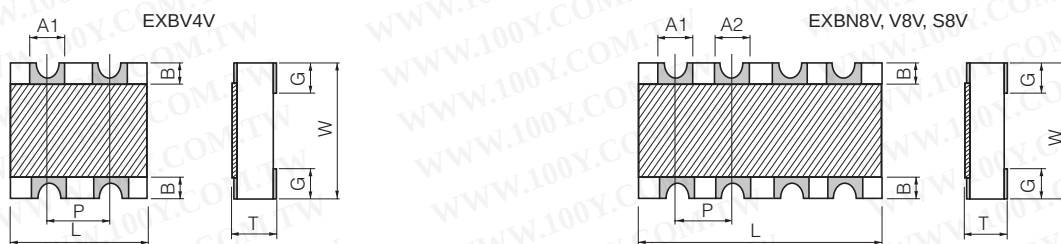


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Type (inch size)	Dimensions (mm)								Mass (Weight) [g/1000 pcs.]
	L	W	T	A1	A2	B	P	G	
EXB14V (0201×2)	0.80±0.10	0.60±0.10	0.35±0.10	0.35±0.10	—	0.15±0.10	(0.50)	0.15±0.10	0.5
EXB24V (0402×2)	1.00±0.10	1.00±0.10	0.35±0.10	0.40±0.10	—	0.18±0.10	(0.65)	0.25±0.10	1.2
EXB28V (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
EXB2HV (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
EXB34V (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
EXB38V (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

(2) Concave Terminal type

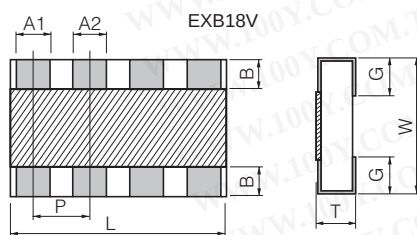
() Reference



Type (inch size)	Dimensions (mm)								Mass (Weight) [g/1000 pcs.]
	L	W	T	A1	A2	B	P	G	
EXBN8V (0402×4)	2.00±0.10	1.00±0.10	0.45±0.10	0.30±0.10	0.30±0.10	0.20±0.15	(0.50)	0.30±0.15	3.0
EXBV4V (0603×2)	1.60 ^{+0.20} _{-0.10}	1.60 ^{+0.20} _{-0.10}	0.60±0.10	0.60±0.10	—	0.30±0.15	(0.80)	0.45±0.15	5.0
EXBV8V (0603×4)	3.20 ^{+0.20} _{-0.10}	1.60 ^{+0.20} _{-0.10}	0.60±0.10	0.60±0.10	0.60±0.10	0.30±0.15	(0.80)	0.45±0.15	10
EXBS8V (0805×4)	5.08 ^{+0.20} _{-0.10}	2.20 ^{+0.20} _{-0.10}	0.70±0.20	0.80±0.15	0.80±0.15	0.50±0.15	(1.27)	0.55±0.15	30

(3) Flat Terminal type

() Reference



Type (inch size)	Dimensions (mm)								Mass (Weight) [g/1000 pcs.]
	L	W	T	A1	A2	B	P	G	
EXB18V (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

() Reference

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
 Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Sep. 2010

■ Ratings

Item	Specifications
Resistance Range	10 Ω to 1 MΩ; E24 series
Resistance Tolerance	J: ±5 %
Number of Terminals	14V, 24V, V4V, 34V 4 terminal
	18V, 28V, N8V, 38V, V8V, S8V 8 terminal
	2HV 16 terminal
Number of Resistors	14V, 24V, V4V, 34V 2 terminal
	18V, 28V, N8V, 38V, V8V, S8V 4 terminal
	2HV 8 terminal
Power Rating at 70 °C	14V, N8V 0.031 W/element
	18V 0.031 W/element (0.1 W/package)
	24V, 28V, V4V, 34V, V8V, 38V 0.063 W/element
	S8V 0.1 W/element
	2HV 0.063 W/element (0.25 W/package)

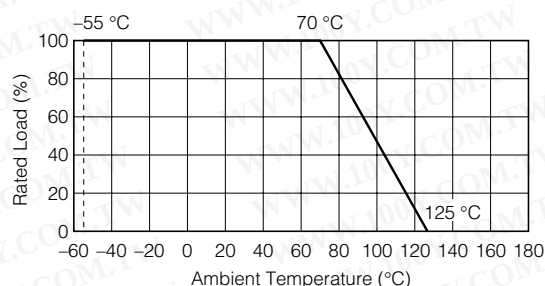
		Item	Specifications
Limiting Element Voltage ⁽¹⁾		14V,18V	12.5 V
		2HV	25 V
		24V,28V,N8V,38V,34V,V4V,V8V	50 V
		S8V	100 V
Max. Over-load Voltage ⁽²⁾		14V,18V	25 V
		2HV	50 V
		24V,28V,N8V,38V,34V,V4V,V8V	100 V
		S8V	200 V
T.C.R.			±200×10 ⁻⁶ /°C
Category Temperature Range			-55 °C to 125 °C
Jumper Array	Rated Current	14V,18V	0.5 A
		2HV,24V,28V,N8V,38V,34V,V4V,V8V	1 A
		S8V	2 A
	Max. Overload Current	14V,18V	1 A
		2HV,24V,28V,N8V,38V,34V,V4V,V8V	2 A
		S8V	4 A

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

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

Power Derating Curve

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



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