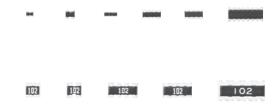


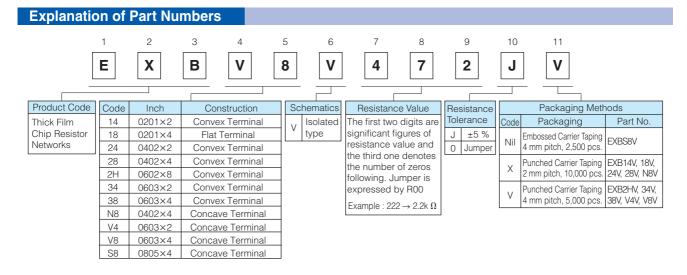
Chip Resistor Array

Type: **EXB 14V, 18V, 24V, 28V, N8V, 2HV, 34V, V4V, 38V, V8V, S8V**

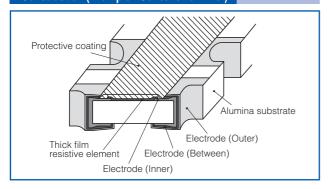


Features

- High density
 - 2 resistors in 0.8 mm \times 0.6 mm size / 0302 inch size : EXB14V
 - 4 resistors in 1.4 mm \times 0.6 mm size / 0502 inch size : EXB18V
 - 2 resistors in 1.0 mm × 1.0 mm size / 0404 inch size : EXB24V
 - 4 resistors in 2.0 mm × 1.0 mm size / 0804 inch size : EXB28V, EXBN8V
 - 8 resistors in 3.8 mm \times 1.6 mm size / 1506 inch size : EXB2HV
 - 2 resistors in 1.6 mm × 1.6 mm size / 0606 inch size : EXB34V, EXBV4V
 - 4 resistors in 3.2 mm × 1.6 mm size / 1206 inch size : EXB38V, EXBV8V
 - 4 resistors in 5.1 mm × 2.2 mm size / 2009 inch 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
- AEC-Q200 qualified (EXB2, EXB3)
- RoHS compliant
- As for Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions, Please see Data Files

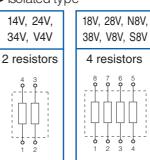


Construction (Example : Concave Terminal)



Schematics

Isolated type





Ratings

[For Resistor]

Part No. (inch size)	Power Rating at 70 °C (W / element)	Limiting Element Voltage (1) (V)	Maximum Overload Voltage ⁽²⁾ (V)	Resistance Tolerance (%)	Resistance Range (Ω)	T.C.R. (×10 ⁻⁶ /°C)	Category Temperature Range (°C)	AEC-Q200 Grade		
EXB14V (0201×2)	0.031	12.5	25	±5	10 to 1M (E24)				-55 to +125	_
EXB18V (0201×2)	0.031 (0.1 W / package)	12.5	25	±5	10 to 1M (E24)		-55 to +125	_		
EXB24V (0402×2)	0.063	50	100	±5	1 to 1M (E24)		-55 to +125	Grade 1		
EXB28V (0402×4)	0.063	50	100	±5	1 to 1M (E24)	<10 Ω : -200 to +600 10 Ω to 1M Ω : ± 200	-55 to +125	Grade 1		
EXB2HV (0602×8)	0.063 (0.25 W / package)	25	50	±5	10 to 1M (E24)		-55 to +125	Grade 1		
EXB34V (0603×2)	0.063	50	100	±5	1 to 1M (E24)		-55 to +125	Grade 1		
EXB38V (0603×4)	0.063	50	100	±5	1 to 1M (E24)		-55 to +125	Grade 1		
EXBN8V (0402×4)	0.031	50	100	±5	10 to 1M (E24)		-55 to +125	-		
EXBV4V (0603×2)	0.063	50	100	±5	10 to 1M (E24)		-55 to +125	-		
EXBV8V (0603×4)	0.063	50	100	±5	10 to 1M (E24)		-55 to +125			
EXBS8V (0805×4)	0.1	100	200	±5	10 to 1M (E24)		-55 to +125	_		

⁽¹⁾ Rated Continuous Working Voltage (RCWV) shall be determined from RCWV=√Power Rating × Resistance Values, or Limiting Element Voltage listed above, whichever less.

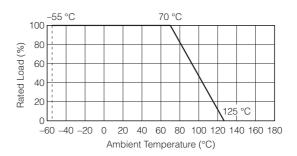
[For Jumper]

Part No. (inch size)	Rated Current (A / element)	Maximum Overload Current (1) (A)
EXB14V (0201×2)	0.5	1
EXB18V (0201×4)	0.5	1
EXB24V (0402×2)	1	2
EXB28V (0402×4)	1	2
EXB2HV (0602×8)	1	2
EXB34V (0603×2)	1	2
EXB38V (0603×4)	1	2
EXBN8V (0402×4)	1	2
EXBV4V (0603×2)	1	2
EXBV8V (0603×4)	1	2
EXBS8V (0805×4)	2	4

⁽¹⁾ Overload test current

Power Derating Curve

For resistors operated in ambient temperatures above 70 $^{\circ}$ C, power rating shall be derated in accordance with the figure below.



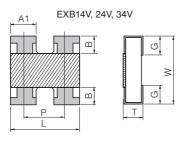
⁽²⁾ Overload Test Voltage (OTV) shall be determined from OTV=Specified Magnification (refer to performance) × RCWV or Maximum Overload Voltage listed above, whichever less.

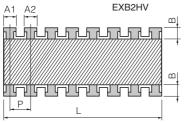
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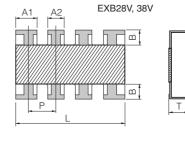
Panasonic

Dimensions in mm (not to scale)

(1) Convex Terminal type







Part No.	Dimensions (mm)								
(inch size)	L	W	Т	A1	A2	В	Р	G	[g/1000 pcs.]
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 (0602×8)	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

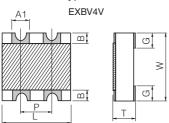
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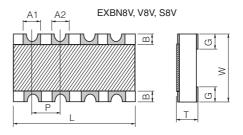
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() Reference

(2) Concave Terminal type

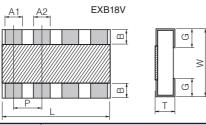




Part No.	Dimensions (mm)								
(inch size)	L	W	Т	A1	A2	В	Р	G	[g/1000 pcs.]
EXBN8V (0402×4)	2.00 ^{±0.10}	1.00 ^{±0.10}	0.45 ^{±0.10}	0.30 ^{±0.10}	0.30 ^{±0.10}	0.20 ^{±0.15}	(0.50)	0.30 ^{±0.15}	3.0
EXBV4V (0603×2)	1.60+0.20	1.60+0.20	0.60 ^{±0.10}	0.60 ^{±0.10}	_	0.30 ^{±0.15}	(0.80)	0.45 ^{±0.15}	5.0
EXBV8V (0603×4)	3.20+0.20	1.60+0.20	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	2.20+0.20	0.70 ^{±0.20}	0.80 ^{±0.15}	0.80 ^{±0.15}	0.50 ^{±0.15}	(1.27)	0.55 ^{±0.15}	30

() Reference

(3) Flat Terminal type



Part No. (inch size)	Dimensions (mm)								
	L	W	Т	A1	A2	В	Р	G	[g/1000 pcs.]
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



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Test Item Performance Requirements		Test Conditions
Resistance Within Specified Tolerance		20 °C
T. C. R.	Within Specified T. C. R.	+25 °C/+125 °C
Overload	±2%	Rated Voltage × 2.5, 5 s Jumper type: Max. Overload Current, 5 s
Resistance to Soldering Heat	±1%	270 °C, 10 s
Rapid Change of Temperature	±1%	-55 °C (30min.) / +125 °C (30min.), 100 cycles
High Temperature Exposure	±1%	+125 °C , 1000 h
Damp Heat, Steady State	±1%	60 °C, 90% to 95 %RH, 1000 h
Load Life in Humidity	±3%	60 °C, 90% to 95 %RH, Rated Voltage (Jumper type: Rated Current), 1.5 h ON/0.5 h OFF cycle, 1000 h
Endurance at 70 °C	±3%	70 °C, Rated Voltage(Jumper type: Rated Current), 1.5 h ON/0.5 h OFF cycle, 1000 h