

Chip Resistor Networks

Type: **EXBD:1206**
EXBE:1608
EXBA:2512
EXBQ:1506



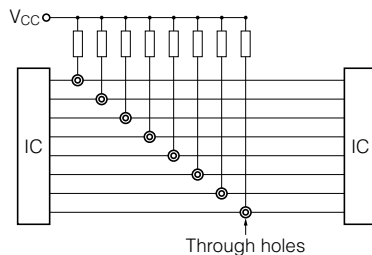
■ Features

- High density placing for digital signal circuits
 - Bussed 8 or 15 resistors for pull up/down circuits
 - EXBD: 3.2 mm × 1.6 mm × 0.55 mm, 0.635 mm pitch
 - EXBE: 4.0 mm × 2.1 mm × 0.55 mm, 0.8 mm pitch
 - EXBA: 6.4 mm × 3.1 mm × 0.55 mm, 1.27 mm pitch
 - EXBQ: 3.8 mm × 1.6 mm × 0.45 mm, 0.5 mm pitch
 - Available direct placing on the bus line by means of half pitch spacing without through-holes on PWB (“High density placing” is shown below)
- High speed mounting using conventional placing machine
- Reference Standard: IEC 60115-9, JIS C 5201-9, EIAJ RC-2130

RoHS compliant

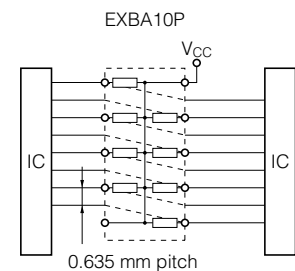
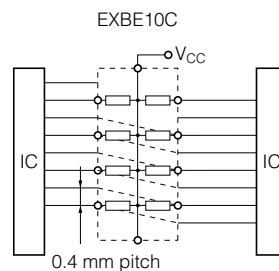
<High density placing>

Pull up resistors



No through hole

Direct placement on the bus line



■ Packaging Methods

Please see Pages 40 to 43

■ Recommended Land Pattern

Please see Pages 44 to 45

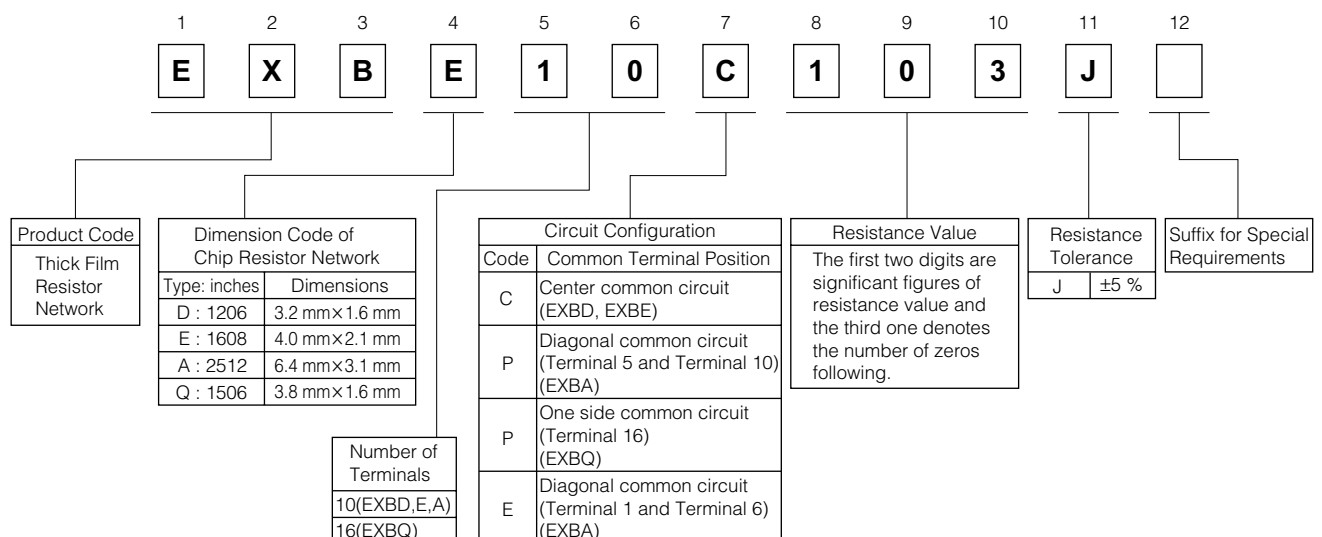
■ Recommended Soldering Conditions

Please see Page 46

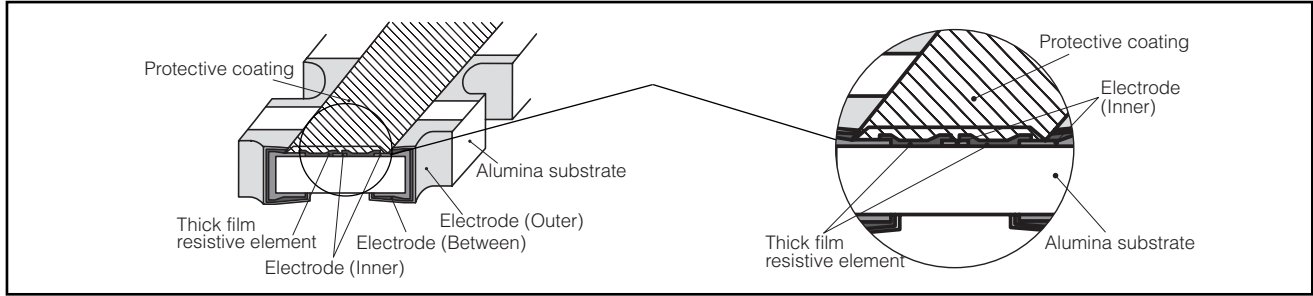
■ Safety Precautions

Please see Page 47

■ Explanation of Part Numbers



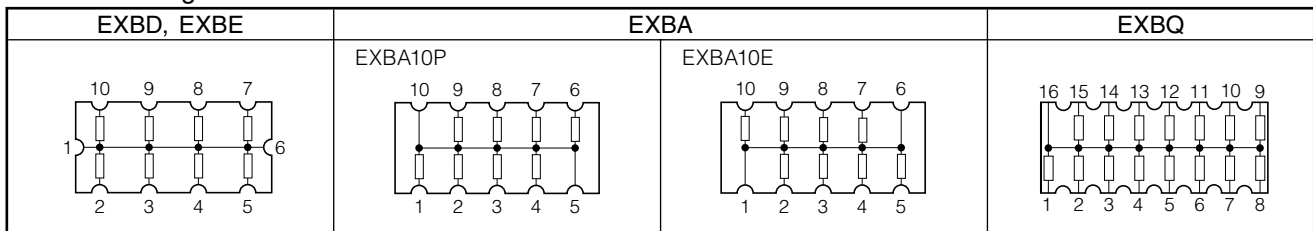
Construction (Example : EXBD)



Dimensions in mm (not to scale)

EXBD	EXBE	EXBA	EXBQ
<p>Mass (Weight)[1000 pcs.] : 10 g</p>	<p>Mass (Weight)[1000 pcs.] : 16 g</p>	<p>Mass (Weight)[1000 pcs.] : 40 g</p>	<p>Mass (Weight)[1000 pcs.] : 9 g</p>

Circuit Configuration



Ratings

Item	Specifications			
	EXBD	EXBE	EXBA	EXBQ
Series				
Resistance Range	47 Ω to 1 MΩ (E12)			100 Ω to 470 kΩ (E6 series)
Resistance Tolerance	±5%			
Number of Terminals	10 terminals			16 terminals
Number of Resistors	8 element			15 element
Power Rating at 70 °C	0.05 W/element	0.063 W/element		0.025 W/element
Limiting Element Voltage ⁽¹⁾	25V		50 V	25V
Maximum Overload Voltage ⁽²⁾	50 V		100 V	50 V
T. C. R.	±200 × 10 ⁻⁶ / °C			
Category Temperature Range	-55 °C to +125 °C			

(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 Maximum 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.

