Chip Attenuator 0302, 0404

Type: EXB 14AT, 24AT



■ Features

- Unbalanced π type attenuator circuit in one chip EXB14AT(0.8 mm × 0.6 mm), EXB24AT(1.0 mm × 1.0 mm)
- Reduced mounting area :

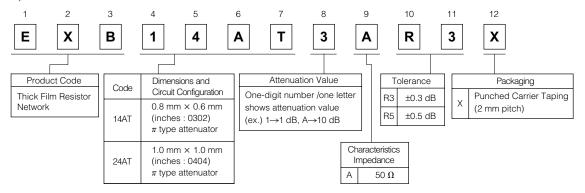
EXB14AT: About 60% smaller than the area of an attenuator circuit consisting of three 0603 chip resistors, almost equal to the area of three 0402 chip resistors EXB24AT: About 50% smaller than the area of an attenuator circuit consisting of three 1005 chip resistors, almost equal to the area of three 0603 chip resistors

- Mounting cost reduction: (Only 1 chip placed as compared to 3)
- Attenuation : 1 dB to 10 dB

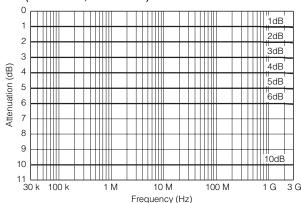
■ Recommended Applications

- Attenuation / level control / impedance matching of high frequency (communication signalling equipment cellular phones(GSM, CDMA, PDC, etc.), PHS, PDAs)
- 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

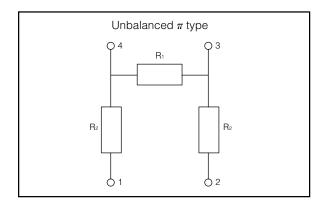
■ Explanation of Part Numbers



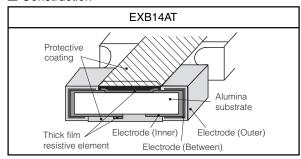
Attenuation-Frequency Characteristics (EXB14AT, EXB24AT)

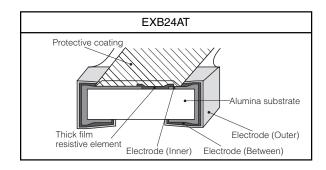


■ Circuit Configuration



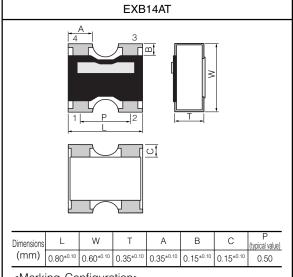
■ Construction





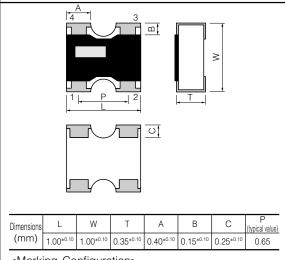
EXB24AT

■ Dimensions (not to scale)



<Marking Configuration>

The bar marking for recognizing terminal direction is located on the side of terminal 3, 4. Mass (Weight) [1000 pcs.]: 0.7 g



<Marking Configuration>

The bar marking for recognizing terminal direction is located on the side of terminal 4.

Mass (Weight) [1000 pcs.] : 1.1 g

■ Ratings

Туре	EXB14AT, EXB24AT
Attenuation Value	1 dB, 2 dB, 3 dB, 4 dB, 5 dB, 6 dB, 10 dB*
Attenuation Value Tolerance	1 dB, 2 dB, 3 dB, 4 dB, 5 dB : ±0.3 dB 6 dB, 10 dB : ±0.5 dB
Characteristic Impedance	50 Ω
Power Rating	0.04 W /package
Frequency Range at 70 °C	DC to 3.0 GHz
VSWR (Voltage Standing Wave Ratio)	1.3 max.
Number of Resistors	3 resistors
Number of Terminals	4 terminals
Category Temperature Range	−55 °C to +125 °C

^{*} Please inquire about the other Attenuator value

Power Derating Curve

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

