Panasonic

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 :

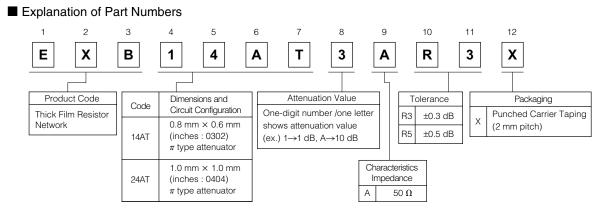
EXB14AT : About 60% smaller than the area of an attenuator circuit consisting of three 0603 chip resistors, almost equal to the area of three 0402 chip resistors EXB24AT : About 50% smaller than the area of an attenuator circuit consisting of three 1005 chip resistors, almost equal to the area of three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

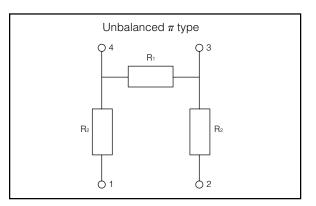
 Recommended Soldering Conditions
 Please see Page 46
 Safety Precautions
 Please see Page 47



Attenuation-Frequency Characteristics (EXB14AT, EXB24AT)

0 . 1dB 1 2dB 2 . 3dB 3 4dB Attenuation (dB) 4 5dB 5 6dB 6 7 8 9 10dB 10 11 . 30 k 100 k 1 M 10 M 100 M 1 G 3 G Frequency (Hz)

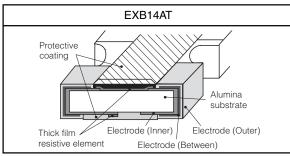
Circuit Configuration



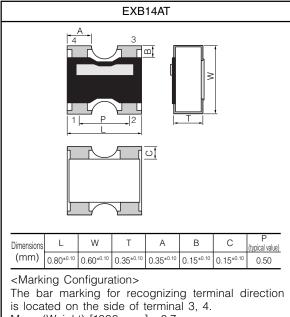
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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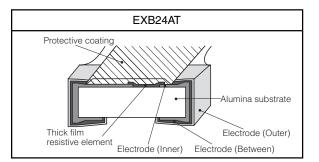
Construction

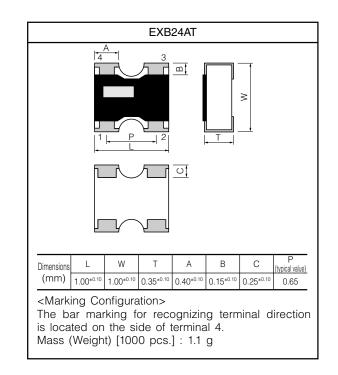


Dimensions (not to scale)









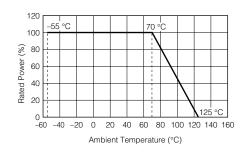
Ratings

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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 °C, power rating shall be derated in accordance with the figure on the right.



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