# 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 :

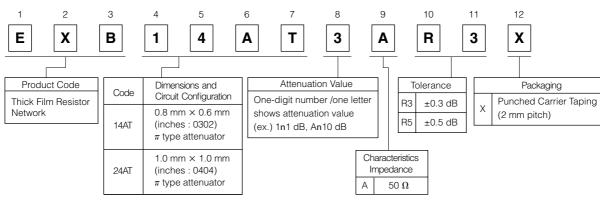
EXB14AT : About 60% smaller than the area of an attenuator circuit consisting of three 0603 chip resistors, almost equal to the area of three 0402 chip resistors

- 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
- RoHS compliant

# Recommended Applications

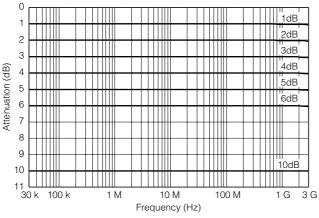
 Attenuation / level control / impedance matching of high frequency (communication signalling equipment cellular phones(GSM, CDMA, PDC, etc.), PHS, PDAs)

### Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions Please see Data Files

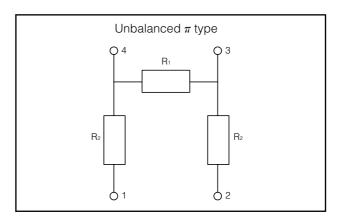


# Explanation of Part Numbers

# Attenuation-Frequency Characteristics (EXB14AT, EXB24AT)



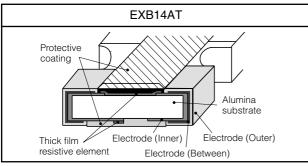
# Circuit Configuration



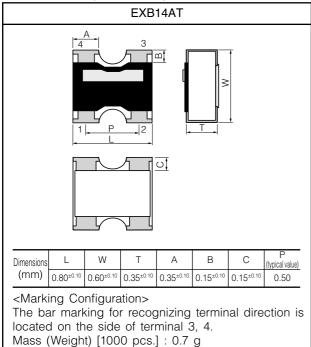
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately. 01

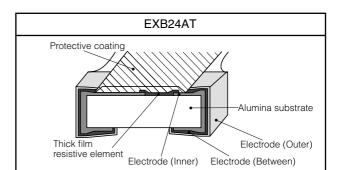
# Panasonic

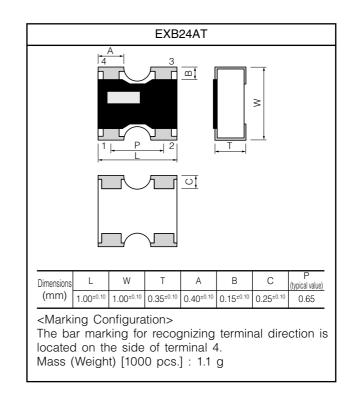
# Construction



# Dimensions (not to scale)







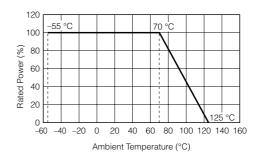
### Ratings

Triatingo	
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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