

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

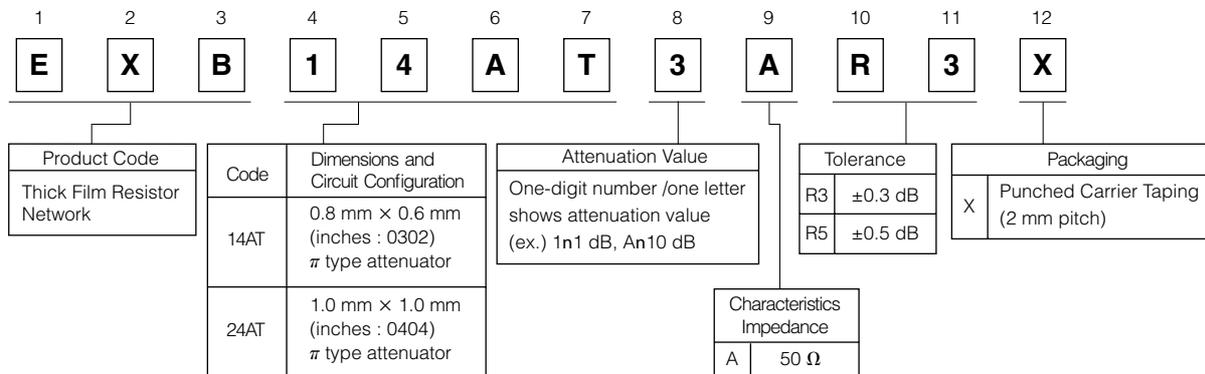
■ Recommended Applications

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

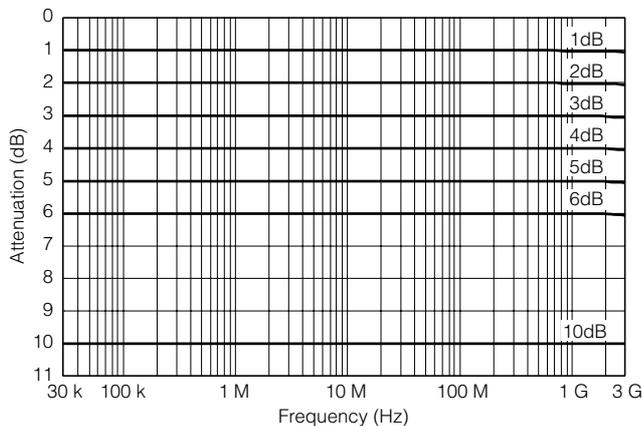
■ Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions

Please see Data Files

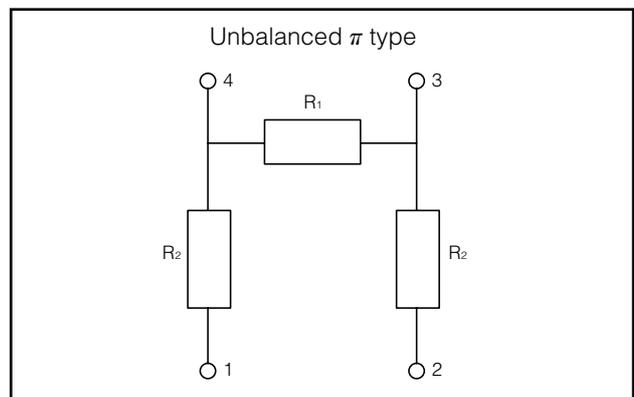
■ Explanation of Part Numbers



■ Attenuation-Frequency Characteristics (EXB14AT, EXB24AT)

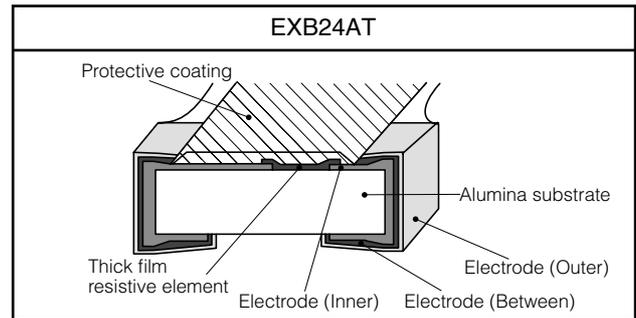
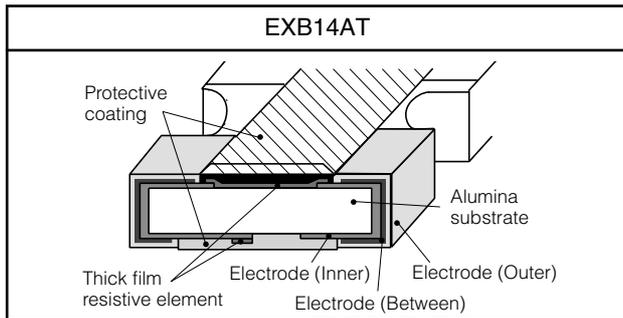


■ Circuit Configuration



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.

Construction



Dimensions (not to scale)

Dimensions (mm)	L	W	T	A	B	C	P (typical value)
	$0.80^{+0.10}$	$0.60^{+0.10}$	$0.35^{+0.10}$	$0.35^{+0.10}$	$0.15^{+0.10}$	$0.15^{+0.10}$	0.50

<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

Dimensions (mm)	L	W	T	A	B	C	P (typical value)
	$1.00^{+0.10}$	$1.00^{+0.10}$	$0.35^{+0.10}$	$0.40^{+0.10}$	$0.15^{+0.10}$	$0.25^{+0.10}$	0.65

<Marking Configuration>
 The bar marking for recognizing terminal direction is located on the side of terminal 4.
 Mass (Weight) [1000 pcs.] : 1.1 g

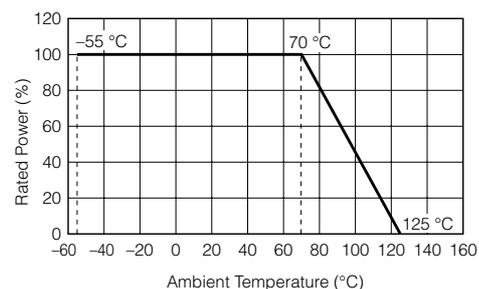
Ratings

Type	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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