

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)

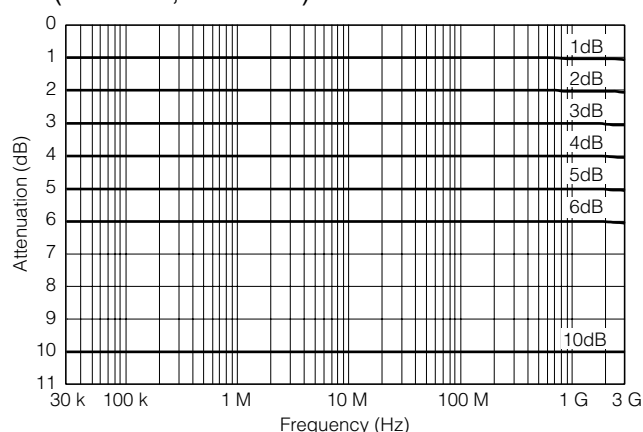
■ Packaging Methods, Land Pattern, Soldering Conditions and Safety Precautions

Please see Data Files

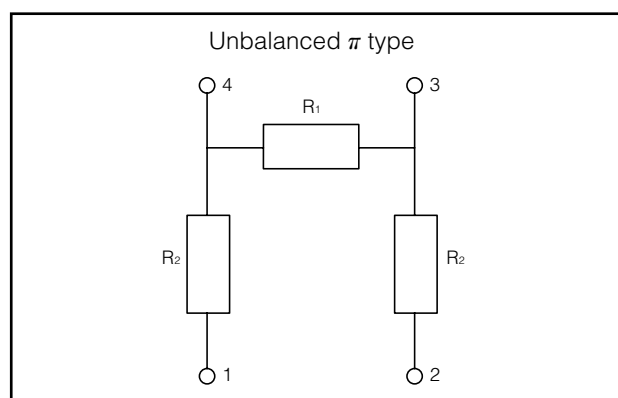
■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	X	B	1	4	A	T	3	A	R	3	X
Product Code Thick Film Resistor Network			Code 14AT 24AT	Dimensions and Circuit Configuration 0.8 mm × 0.6 mm (inches : 0302) π type attenuator 1.0 mm × 1.0 mm (inches : 0404) π type attenuator		Attenuation Value One-digit number /one letter shows attenuation value (ex.) 1n1 dB, An10 dB		Characteristics Impedance A 50 Ω	Tolerance R3 ±0.3 dB R5 ±0.5 dB		Packaging X Punched Carrier Taping (2 mm pitch)

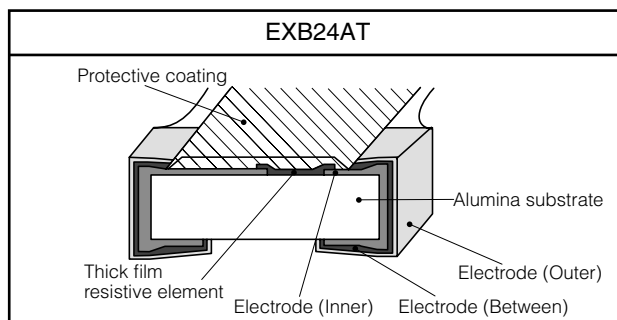
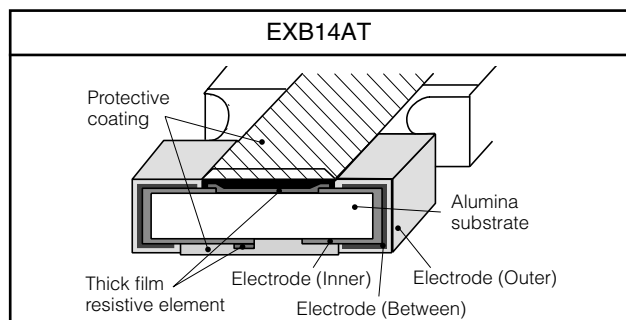
■ Attenuation-Frequency Characteristics (EXB14AT, EXB24AT)



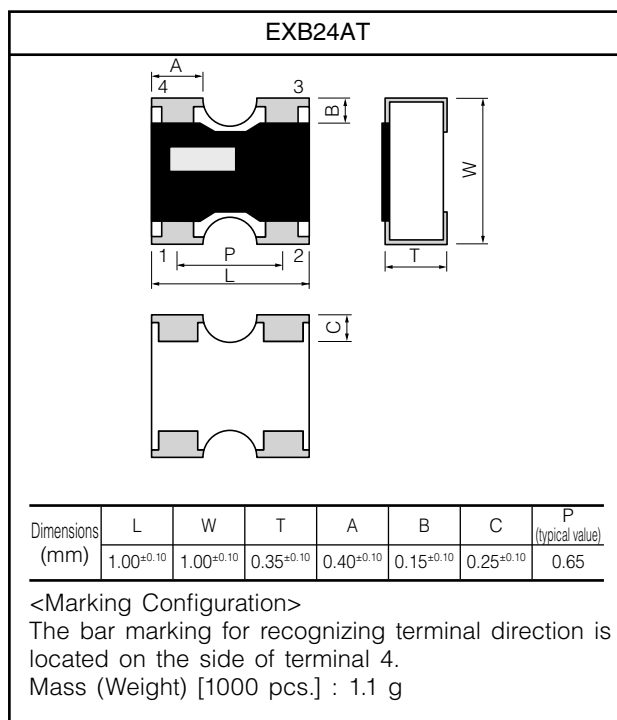
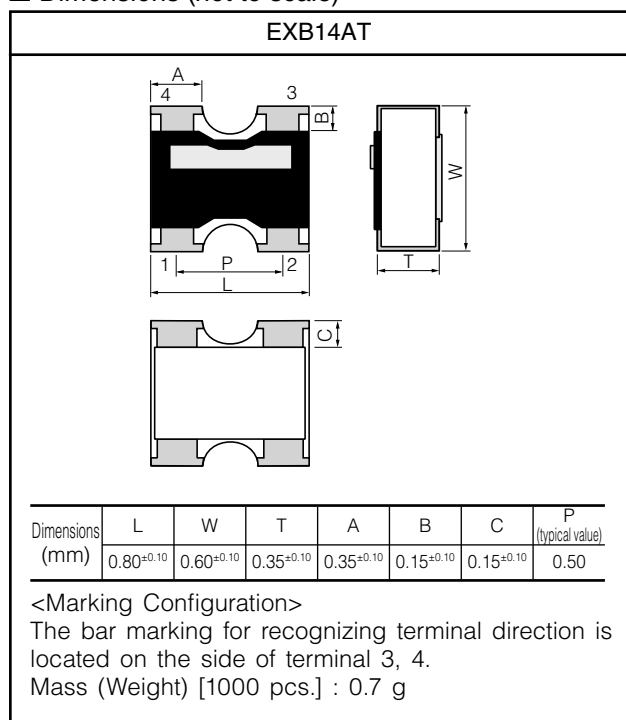
■ Circuit Configuration



Construction



Dimensions (not to scale)



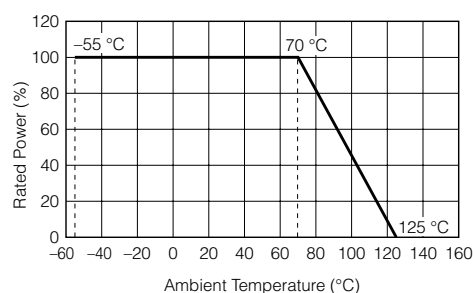
Ratings

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.



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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[EXB-24AT1AR3X](#) [EXB-24AT4AR5X](#) [EXB-24AT4AR3X](#) [EXB-24ATLA2RX](#) [EXB-24ATFA1RX](#) [EXB-24ATGA2RX](#) [EXB-24ATBA1RX](#)