

***Using breakthrough technology,
we aim for products that will create new markets.***

New Product News

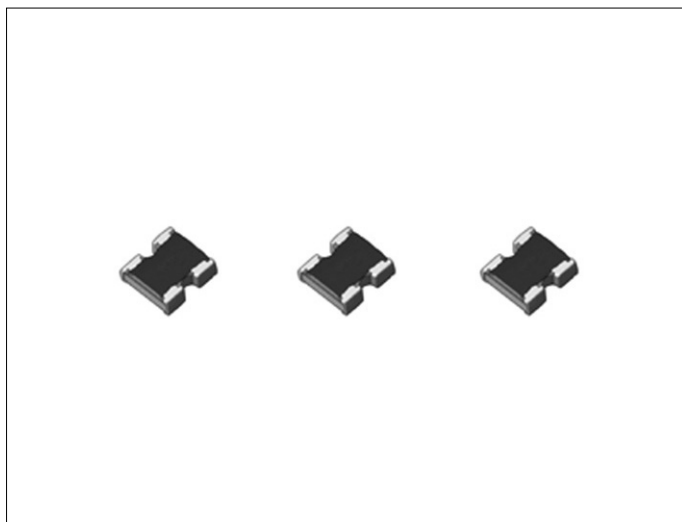
Minimum size in the market. World's first development

Chip resistor network

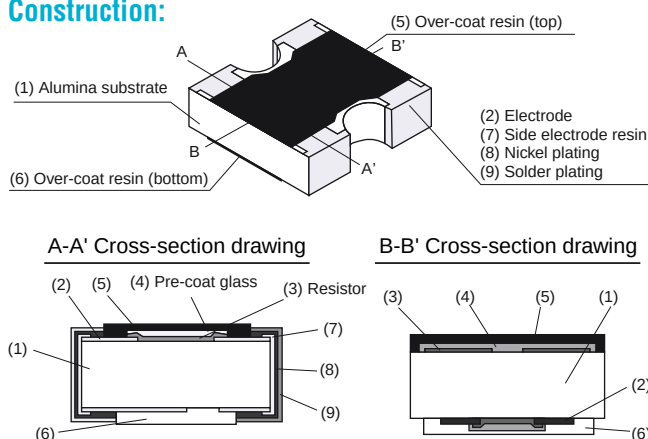
0404 Balanced O type chip attenuator

Industry/Field: Mobile communication

Balanced 0 type attenuator in 0404 chip



- **Construction:**



- **Development Target:**

Market: Equipment that needs attenuation, level-adjustment, impedance-matching in balanced circuit RF signal

Aim: Reducing the mounting occupation area and the number of chips

---Contributing to the downsizing and the down weighting

- **Features:**

- ① Reducing the mounting occupation area: about 67% reduction compared with attenuator circuit consisted of four 0402 chip resistors**
- ② Reducing the mounting times : 4 times to 1 time**
- ③ Superior high frequency characteristics**

- **Number of industrial property rights: 1 (pending)**

- **Characteristics/specifications:**

Attenuation value	0 dB, 1 dB, 2 dB, 3 dB, 6 dB, 10 dB
Attenuation value tolerance	0 dB to 3 dB : ± 0.8 dB 6 dB : ± 1.0 dB 10 dB : ± 2.0 dB
Characteristic impedance	100 Ω , 200 Ω , 300 Ω
Rated power (70°C max.)	0.04 W / package
Frequency range	DC to 2.5 GHz
VSWR (Voltage Standing Wave Ratio)	1.2 max. (typical value) 1.5 max. (0 dB, typical value)

- **Applications/usage examples:**

- Attenuation, level-adjustment, impedance-matching in RF signal of mobile phone

- **Explanation of part numbers:**

1 2 3 4 5 6 7 8 9 10 11 12

E X B 2 4 A B 6 G 1 R X

Common code

0404 size balanced O type chip attenuator

Code	Characteristic impedance
C	100 ohm
E	200 ohm
G	300 ohm
0	100 ohm / 200 ohm / 300 ohm (attenuation: 0 dB)*

* EXB24AB00R8X: 0 dB $\pm$ 0.8 dB

Code	Packaging form
X	Punched (paper) taping (2 mm pitch)

Code	Attenuation value tolerance
R8	$\pm$ 0.8 dB
1R	$\pm$ 1.0 dB
2R	$\pm$ 2.0 dB