Panasonic

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

Near Product Nears

Minimum size in the market. World's first development

Chip resistor network

0404 Balanced O type chip attenuator

Industry/Field: Mobile communication

Balanced O type attenuator in 0404 chip



• 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

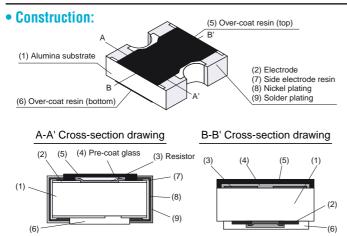
• Features:

Reducing the mounting occupation area: about 67% reduction compared with attenuator circuit consisted of four 0402 chip resistors





• 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	100Ω, 200Ω, 300Ω
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



