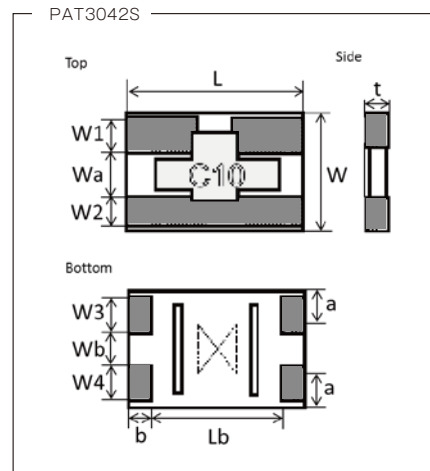
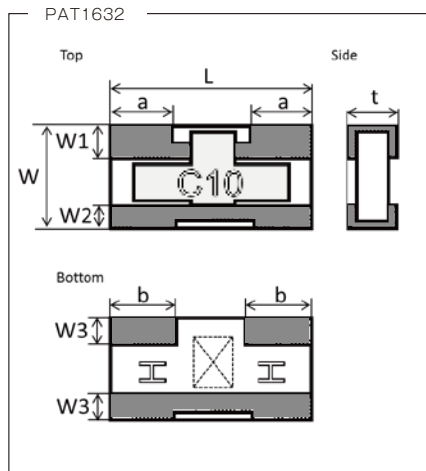
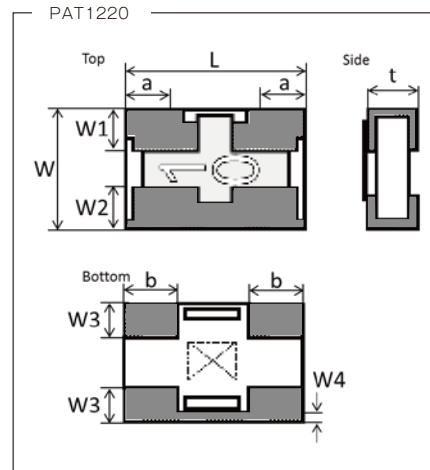
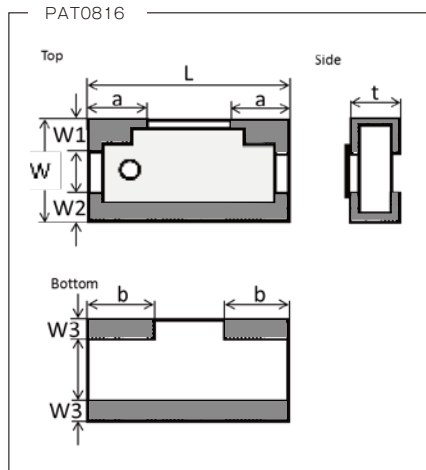
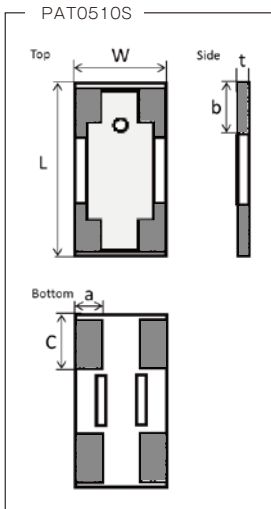


◆ Dimensions



| Type | Size (inch) | L | W | t | a | c | b |
|----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| PAT0510S | 0402 | 1.00±0.05 | 0.50±0.05 | 0.34±0.05 | 0.12±0.04 | 0.27±0.05 | 0.25±0.05 |

(unit : mm)

| Type | Size (inch) | L | W | t | a | b | W1 | W2 | W3 | W4 |
|---------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|
| PAT0816 | 0603 | 1.60±0.10 | 0.80±0.10 | 0.40±0.10 | 0.50±0.15 | 0.50±0.10 | 0.25±0.10 | 0.15±0.10 | 0.20±0.10 | — |
| PAT1220 | 0805 | 2.00±0.10 | 1.25±0.10 | 0.40±0.10 | 0.50±0.20 | 0.60±0.20 | 0.40±0.20 | 0.40±0.20 | 0.35±0.20 | < 0.25 |
| PAT1632 | 1206 | 3.20±0.20 | 1.60±0.20 | 0.40±0.10 | 1.00±0.25 | 1.00±0.25 | 0.55±0.25 | 0.40±0.25 | 0.40±0.20 | — |

(unit : mm)

| Type | Size (inch) | L | W | t | a | b | Lb |
|-----------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| PAT3042S 50Ω(C) | 1612 | 4.20±0.20 | 3.00±0.20 | 0.80±0.15 | 0.80±0.20 | 0.50±0.20 | 3.10±0.20 |
| PAT3042S 75Ω(D) | 1612 | 4.20±0.20 | 3.00±0.20 | 0.80±0.15 | 0.80±0.20 | 0.30±0.20 | 3.50±0.20 |

| Type | W1 | W2 | Wa | W3 | W4 | Wb |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| PAT3042S 50Ω(C) | 0.95±0.20 | 0.80±0.20 | 1.05±0.20 | 0.95±0.20 | 0.95±0.20 | 0.95±0.20 |
| PAT3042S 75Ω(D) | 0.55±0.20 | 0.60±0.20 | 1.55±0.20 | 0.55±0.20 | 0.60±0.20 | 1.55±0.20 |

(unit : mm)

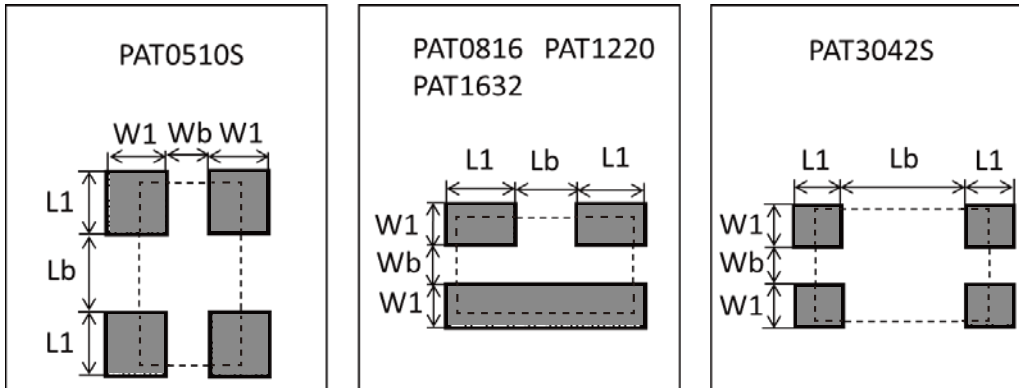
High frequency surface mount components

PAT series

High Precision Chip Attenuator

■ PAT series

◆ Recommended land patterns(soldering footprints)



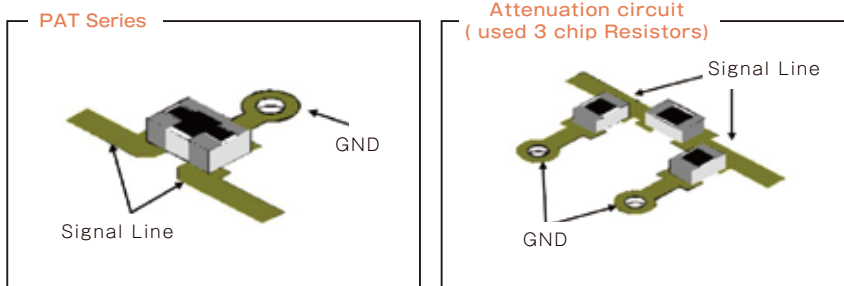
| Size | W1 | Wb | L1 | Lb |
|----------------|------|------|------|------|
| PAT0510S | 0.30 | 0.20 | 0.35 | 0.37 |
| PAT0816 | 0.40 | 0.30 | 0.60 | 0.50 |
| PAT1220 | 0.70 | 0.50 | 0.80 | 0.70 |
| PAT1632 | 0.80 | 0.65 | 1.20 | 1.00 |
| PAT3042S (50Ω) | 1.10 | 0.90 | 1.20 | 2.90 |
| PAT3042S (75Ω) | 1.00 | 1.10 | 1.00 | 3.30 |

(unit : mm)

◆ Benefits of PAT series

Three resistive elements are integrated inside of this chip attenuator. If you use discrete resistors to construct an attenuator, 3 resistors are needed. The merits of one attenuator displacing 3 resistors are:

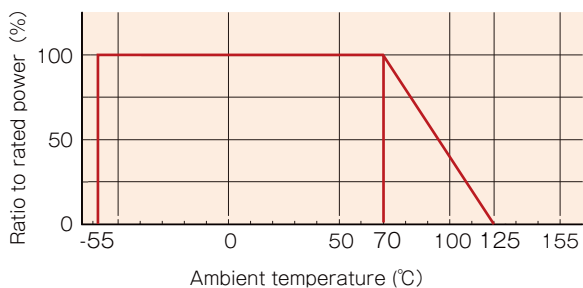
- 1) Three precision resistors are integrated as an attenuator. Therefore, precision attenuation can be easily achieved with this attenuator.
- 2) Because 3 elements are integrated in a small area, parasitic capacitance and inductance are minimized and desired attenuation can be easily attained.
- 3) One attenuator can replace 3 discrete resistors, which contributes miniaturizing the circuit and makes the circuit more reliable



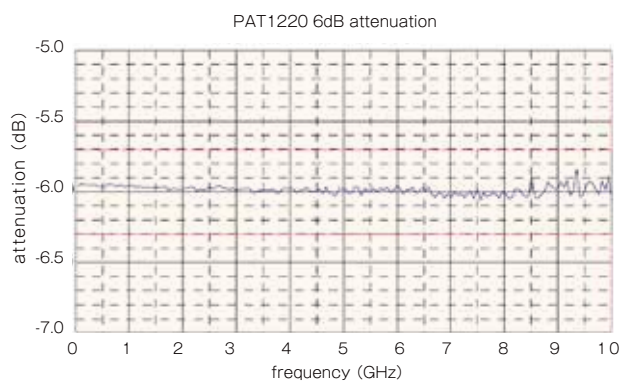
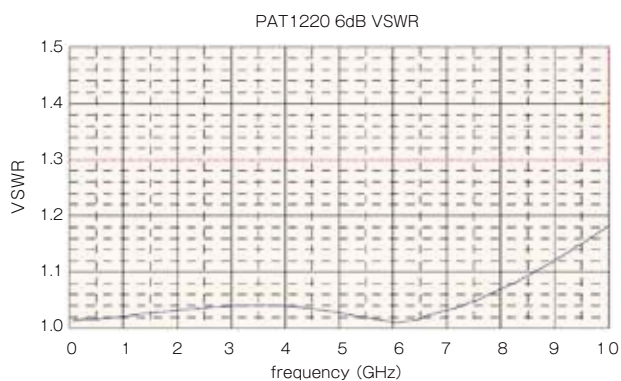
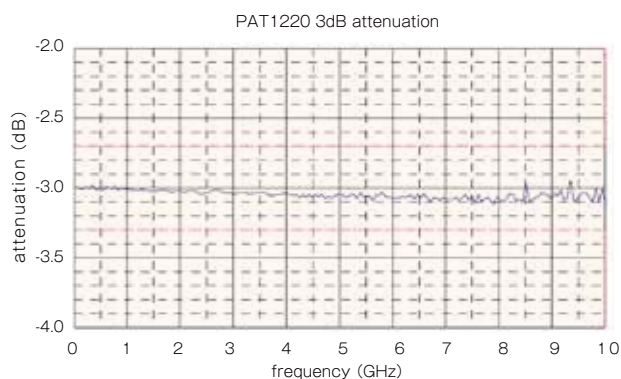
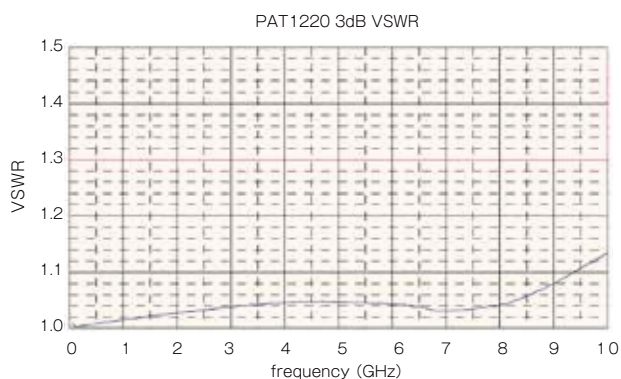
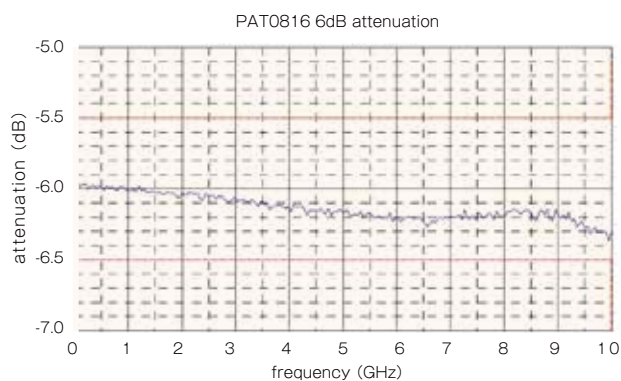
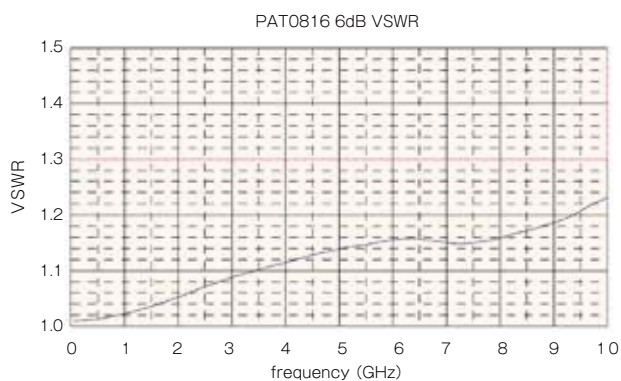
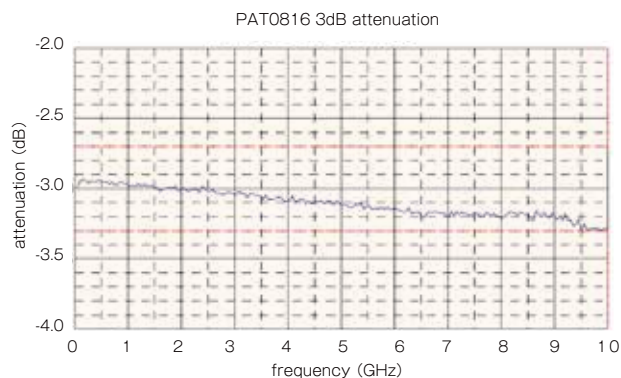
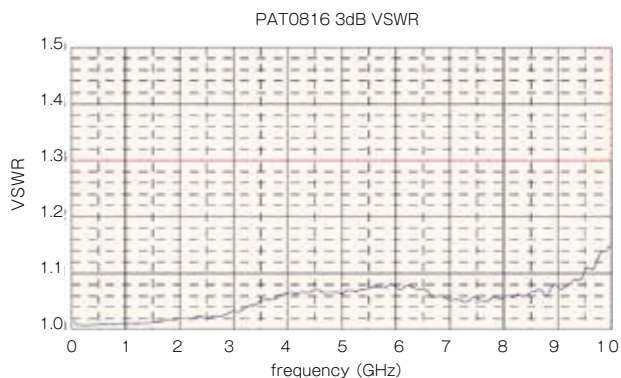
High frequency surface mount components

PAT series

◆ Derating Curve



◆ High frequency characteristics



High frequency surface mount components

PAT series

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