

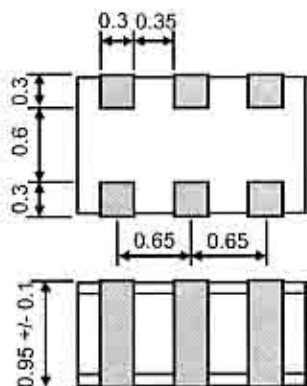
TENTATIVE

EHF2BG1800

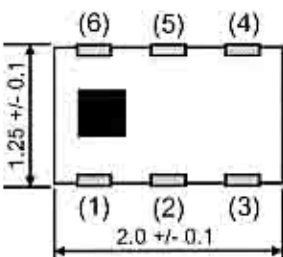
1.8GHz 1:4 Balun

[Dimensions] Unit: mm

<Bottom & Side view>



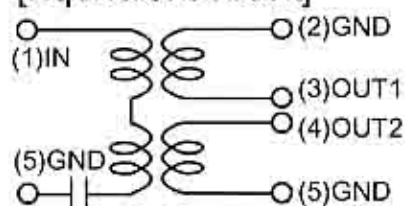
<Top view>



[Pin assignment]

| No. | |
|-----|----------|
| 1 | IN |
| 2 | GND |
| 3 | OUT1 |
| 4 | OUT2 |
| 5 | GND |
| 6 | None Use |

[Equivalent circuit]



[Characteristics] $T_a = -30 \dots +85 \text{degC}$

| Item | Condition | Spec. | Unit |
|---------------------|---------------------|------------|------|
| Frequency range | | 1700-1900 | MHz |
| Insertion loss | Back to back | 1.0 max | dB |
| Amplitude balance | 50/200 | 1.5 max | dB |
| Phase balance | 50/200 | 180 +/- 15 | deg |
| Impedance | IN/OUT | 50/200 | ohm |
| Unbalance port VSWR | 50/200 | 2.2 max | - |
| Remark | DC bias must be 0V. | | |

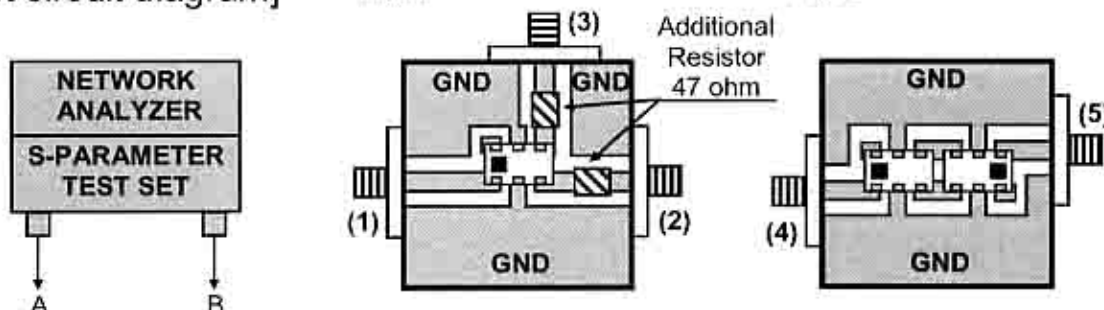
(Note) This product dose not include a DC-cutting device.

Application of a DC voltage between the Balance port and the Unbalance port may cause product deterioration or breakage.

[Test circuit diagram]

Fig. 1

Fig. 2



| Item | Circuit | Port A | Port B | 50 ohm | Remark |
|---------------------|---------|--------|--------|--------|--|
| Insertion loss (IL) | Fig. 2 | (4) | (5) | - | for a device is (IL)/2. |
| Loss 1 | Fig. 1 | (1) | (2) | (3) | Amplitude balance = Loss 1 - Loss 2 |
| Loss 2 | Fig. 1 | (1) | (3) | (2) | |
| Phase 1 | Fig. 1 | (1) | (2) | (3) | Phase balance = Phase 1 - Phase 2 |
| Phase 2 | Fig. 1 | (1) | (3) | (2) | |
| Unbalance port VSWR | Fig. 1 | (1) | (2) | (3) | |