

## H2MABACT0040



5-1500 MHz

50Ω 1: 1 Transmission Line Transformer

### Features

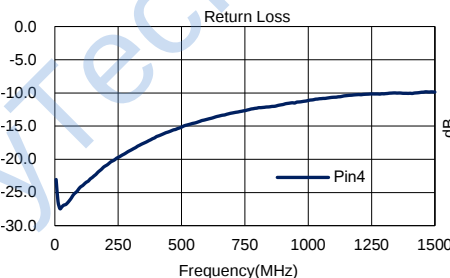
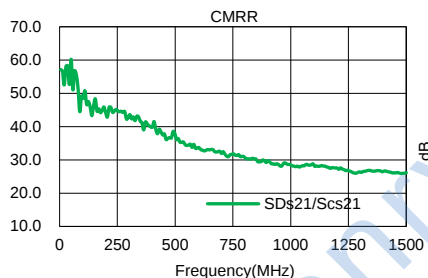
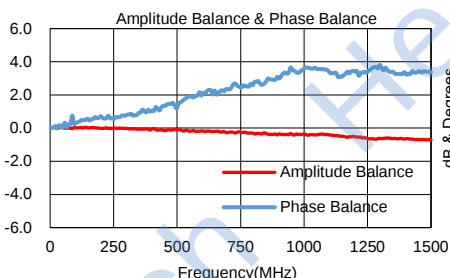
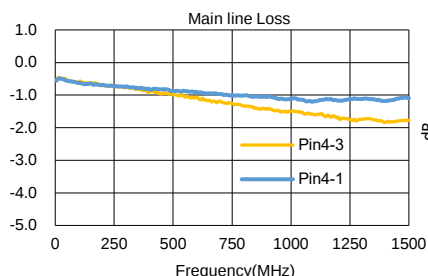
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW
- DC Current: 500mA

### Applications

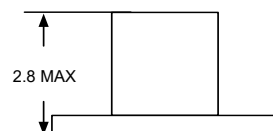
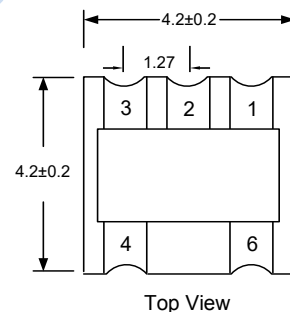
- Impedance matching
- Balanced amplifier
- Balun
- Cellular and VHF

**Electrical Specifications: TA=25 °C, 0dBm, Z0=50Ω**

| Parameter               | Test Conditions | Units | Min  | Typ  | Max  |
|-------------------------|-----------------|-------|------|------|------|
| Main line Loss (Pin4-3) | 5-1500MHz       | dB    | —    | 1.8  | 2.5  |
| Main line Loss (Pin4-1) | 5-1500MHz       | dB    | —    | 1.0  | 1.6  |
| Amplitude Balance       | 5-1500MHz       | dB    | 0.0  | 0.5  | 1.8  |
| Phase Balance           | 5-1500MHz       | °     | 0.0  | 3.5  | 10.0 |
| Input Return Loss(pin4) | 5-1500MHz       | dB    | 7.0  | 12.0 | —    |
| CMRR                    | 5-1500MHz       | dB    | 20.0 | 28.0 | —    |

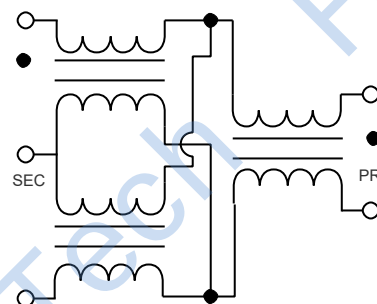


### Outline Drawing(mm)

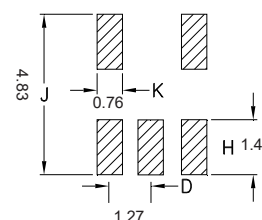


### Electrical structure

Fig 1



### Recommended layout(mm)



### Pin Connections

|          |     |
|----------|-----|
| Input    | 4   |
| Output 1 | 3   |
| Output 2 | 1   |
| Ground   | 2,6 |

## H2MABACT0040



5-1250 MHz

75Ω 1: 1 Transmission Line Transformer

### Features

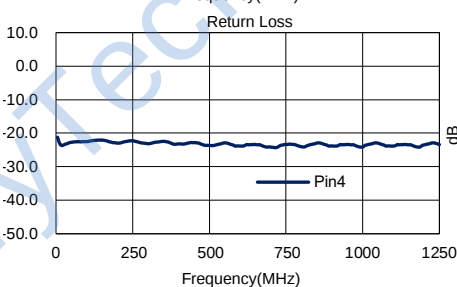
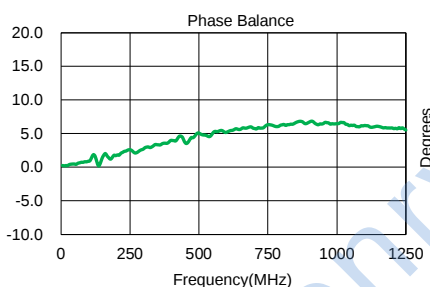
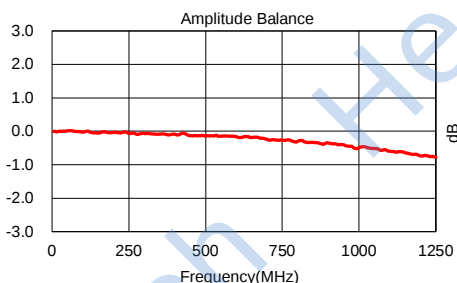
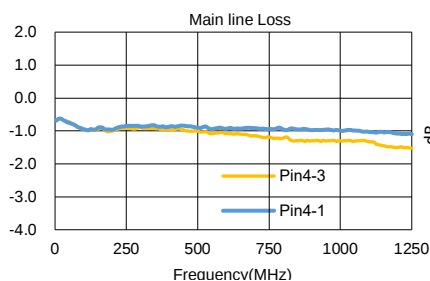
- Operating temperature range: -40℃ to +85℃
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- 260℃ Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW
- DC Current: 500mA

### Applications

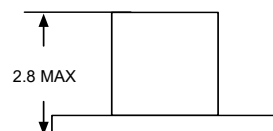
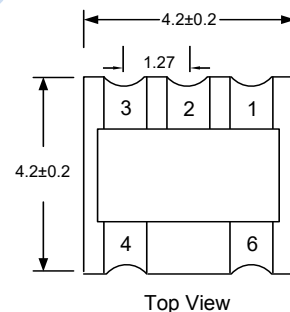
- Impedance matching
- Balanced amplifier
- Balun
- Cellular and VHF

**Electrical Specifications: TA=25℃, 0dBm, Z0=75Ω**

| Parameter               | Test Conditions | Units | Min  | Typ  | Max  |
|-------------------------|-----------------|-------|------|------|------|
| Main line Loss (Pin4-3) | 5-1250MHz       | dB    | —    | 1.4  | 1.8  |
| Main line Loss (Pin4-1) | 5-1250MHz       | dB    | —    | 1.0  | 1.6  |
| Amplitude Balance       | 5-1250MHz       | dB    | 0.0  | 0.5  | 1.0  |
| Phase Balance           | 5-1250MHz       | °     | 0.0  | 6.0  | 12.0 |
| Input Return Loss(pin4) | 5-1250MHz       | dB    | 16.0 | 22.0 | —    |

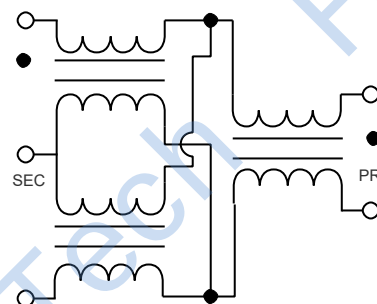


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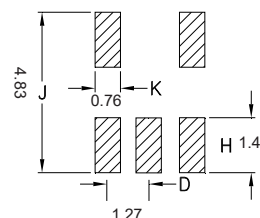


### Electrical structure

Fig 1



### Recommended layout(mm)



### Pin Connections

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