

H2MABACT0040



5-1500 MHz

50Ω 1: 1 Transmission Line Transformer

Features

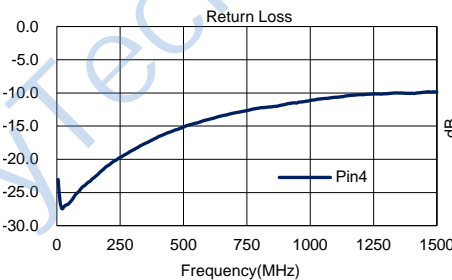
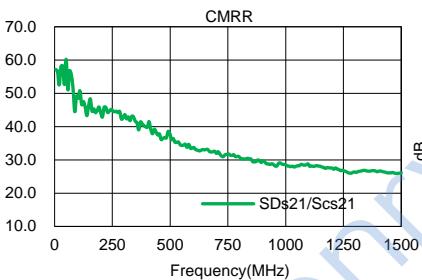
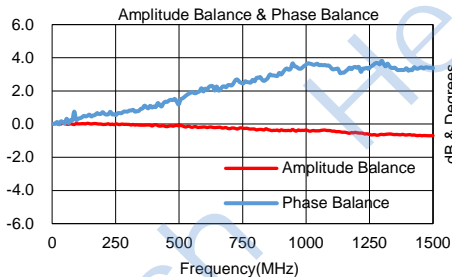
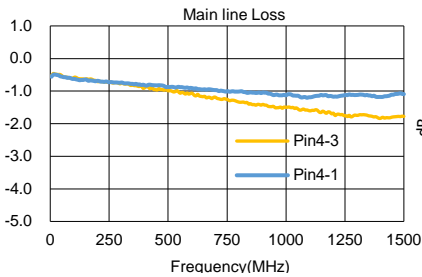
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW
- DC Current: 500mA

Applications

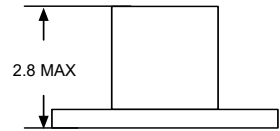
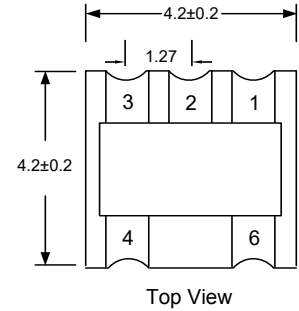
- Impedance matching
- Balanced amplifier
- Balun
- Cellular and VHF

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	—

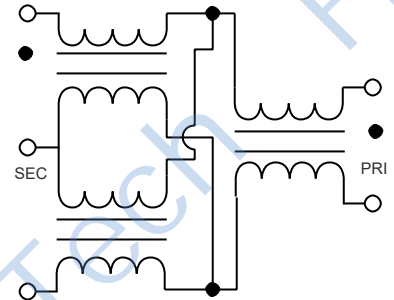


Outline Drawing(mm)

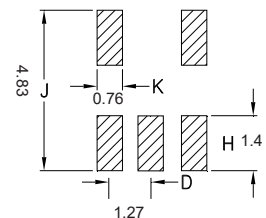


Electrical structure

Fig 1



Recommended layout(mm)



Pin Connections

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

H2MABACT0040



5-1250 MHz

75 1: 1 Transmission Line Transformer

Features

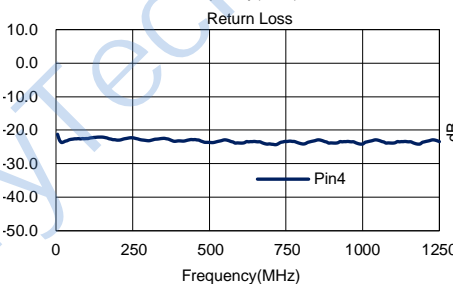
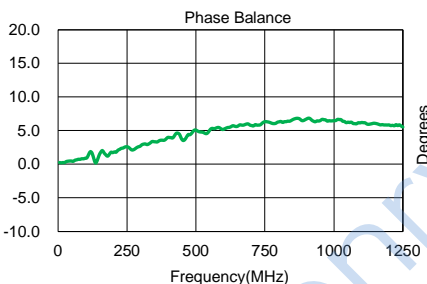
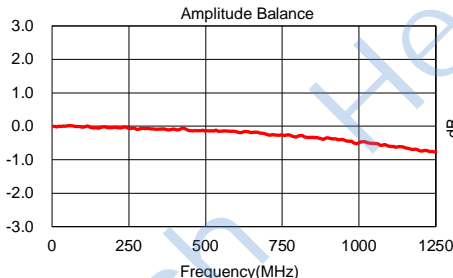
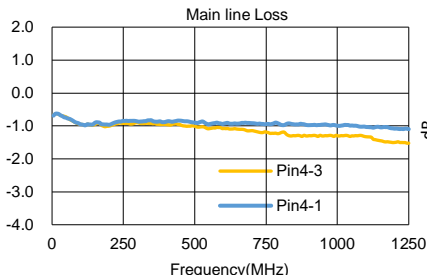
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- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW
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Applications

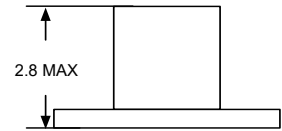
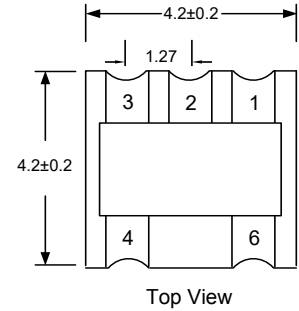
- Impedance matching
- Balanced amplifier
- Balun
- Cellular and VHF

Electrical Specifications: TA=25°C, 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	—

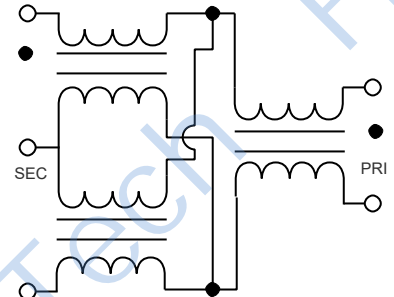


Outline Drawing(mm)

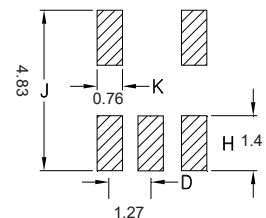


Electrical structure

Fig 1



Recommended layout(mm)



Pin Connections

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

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