

RF Balun Transformer

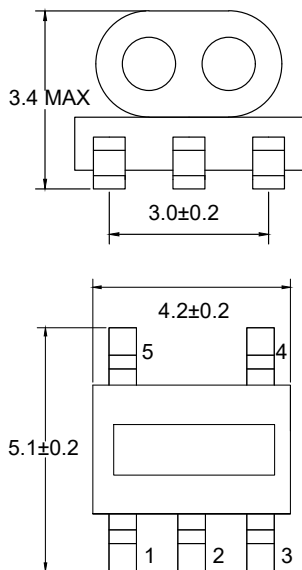
EBH0404-D009021

2024-04-23 Rev. 0

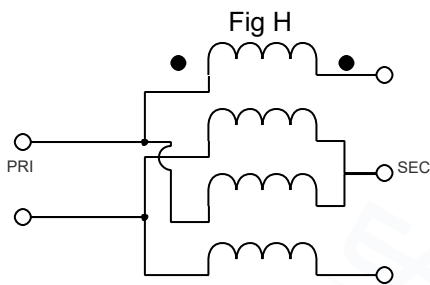


50Ω 1: 4 Transmission Line Transformer 5-1250 MHz

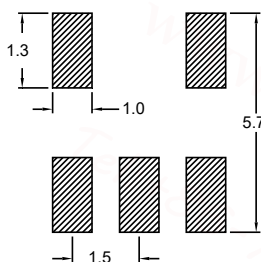
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	5
Centre tap (Ground)	2

Features

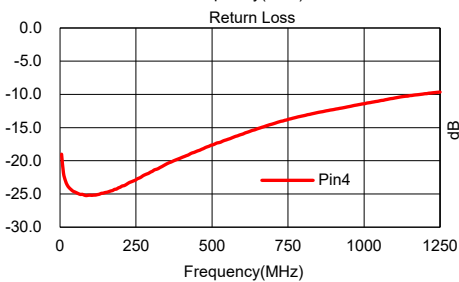
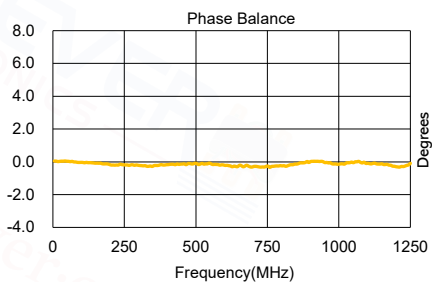
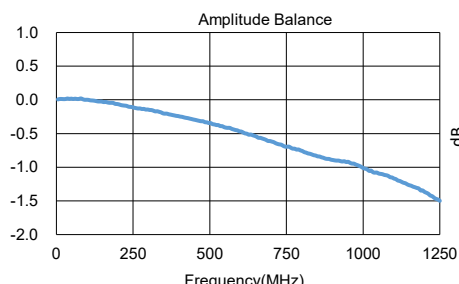
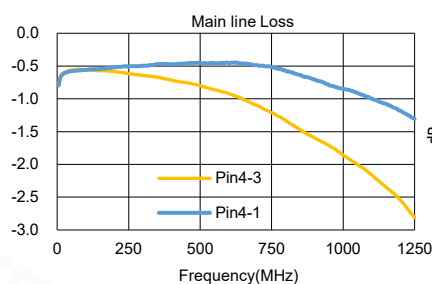
- RF Power, 0.25W MAX
- DC Current, 30mA MAX
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃
- 260℃ Reflow Compatible
- RoHS compliant and lead free

Applications

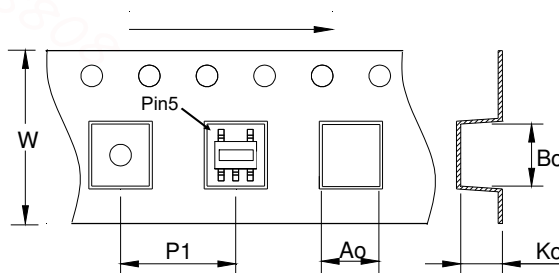
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

Electrical Specifications:TA=25℃, 0dBm, Z0=50Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	5-1250MHz	dB	—	2.5	3.5
Main line Loss (Pin4-1)	5-1250MHz	dB	—	1.5	2.0
Amplitude Balance	5-1250MHz	dB	0.0	0.2	0.5
Phase Balance	5-1250MHz	°	0.0	5.0	10.0
Input Return Loss(Pin4)	5-1250MHz	dB	7.0	10.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	4.50
Bo	mm	5.70
Ko	mm	3.60