

# RF Balun Transformer

## EBE1653-E009938

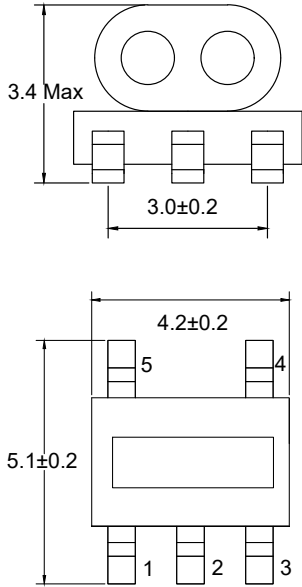
2024-05-28 Rev. 0



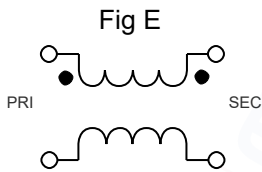
50Ω 1:1 Transmission Line Transformer

5-1000MHz

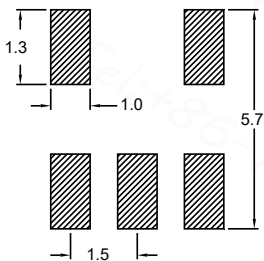
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	5
Not Used	2

### Features

- Input Power: 0.25W Max
- DC Current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

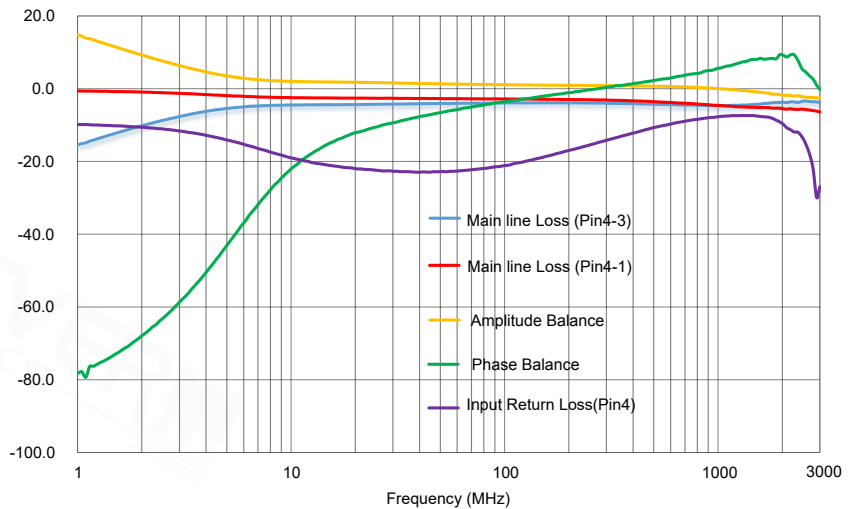
Equivalent to: B4F #617DB-1653=P3

### Applications

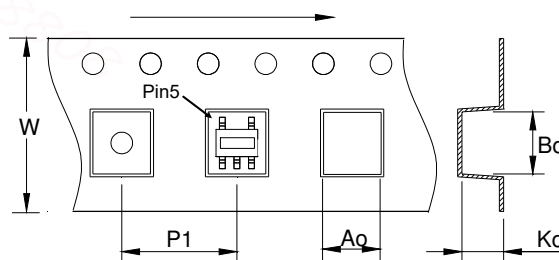
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	5-1000MHz	dB	—	1.2	1.5
Main line Loss (Pin4-1)	5-1000MHz	dB	—	1.0	1.5
Amplitude Balance	5-1000MHz	dB	0.0	0.5	1.2
Phase Balance	5-1000MHz	°	0.0	5.0	10.0
Input Return Loss(Pin4)	5-1000MHz	dB	10.0	16.0	—



### 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