

# RF Balun Transformer

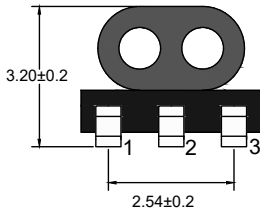
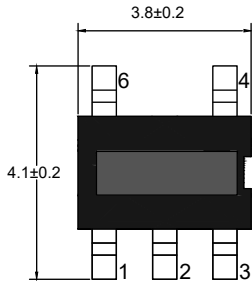
## EBA1038-H004109

2022-07-18 Rev. 0

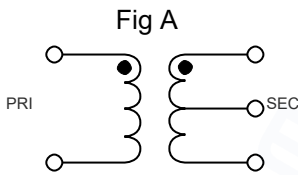


50Ω 1: 3 CT Flux Coupled Transformer 1-300 MHz

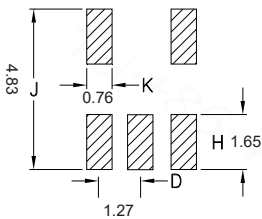
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

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

### Features

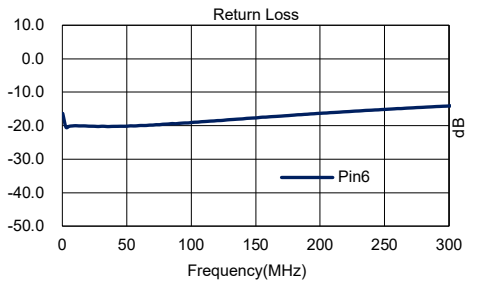
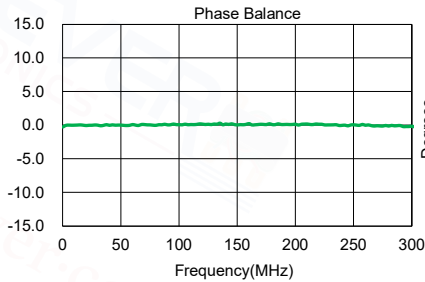
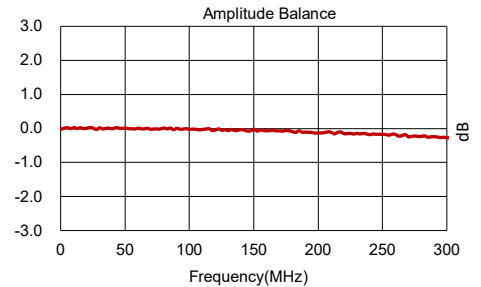
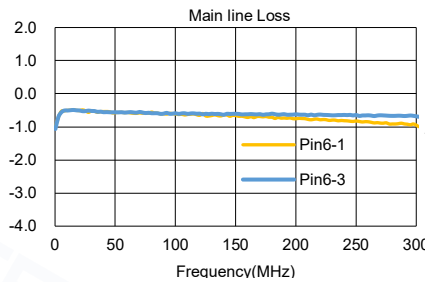
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW Max
- DC Current: 500mA Max

### Applications

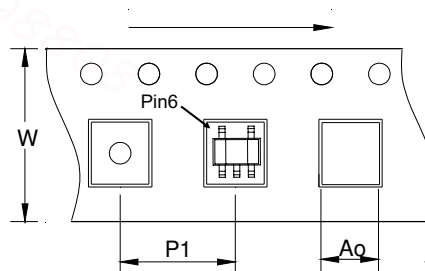
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin6-1)	1-300MHz	dB	—	0.8	1.2
Main line Loss (Pin6-3)	1-300MHz	dB	—	0.5	0.9
Amplitude Balance	1-300MHz	dB	0.0	0.2	0.6
Phase Balance	1-300MHz	°	0.0	0.5	5.0
Input Return Loss(Pin6)	1-300MHz	dB	14.0	17.0	—



### 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	4.50
Ko	mm	3.50