

# RF Balun Transformer

## EBA1040-H004109

2020-10-12 Rev. 0



75Ω 1: 6CT Flux Coupled Transformer 1-300 MHz

### Outline Drawing(mm)

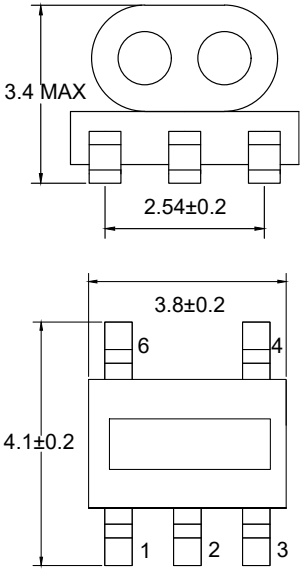
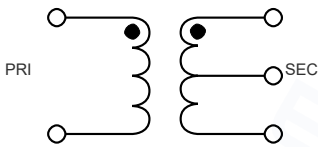
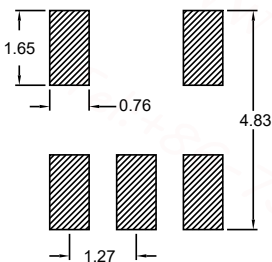


Fig A



### Recommended layout(mm)



### Pin Connections

Input	6
Output 1	1
Output 2	3
Centre tap(ground)	2
ground	4

### Features

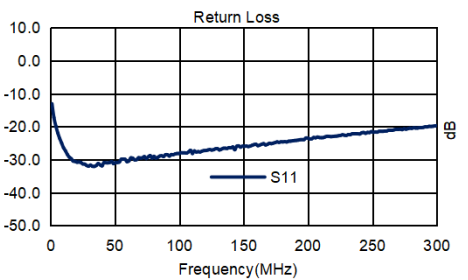
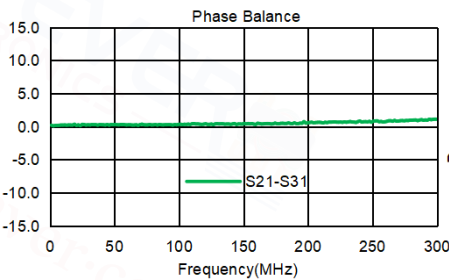
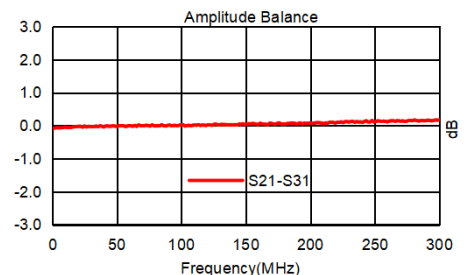
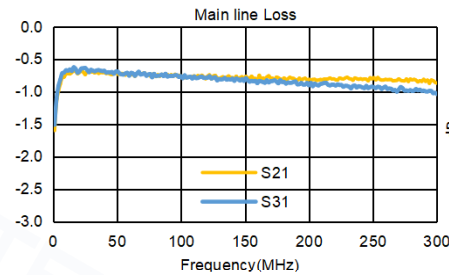
- Operating temperature range: -40 °C to +125 °C
- Storage temperature range: -55 °C to +100 °C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 250mW
- DC Current: 30mA

### Applications

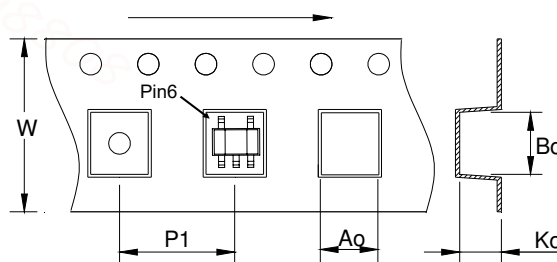
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

### 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	1.5
Main line Loss (Pin6-3)	1-300MHz	dB	—	0.8	1.8
Amplitude Balance	1-300MHz	dB	0.0	0.2	1.2
Phase Balance	1-300MHz	°	0.0	3.0	8.0
Input Return Loss(Pin6)	1-300MHz	dB	16.0	20.0	—



### 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	4.20
Bo	mm	4.50
Ko	mm	3.60