

# RF Balun Transformer

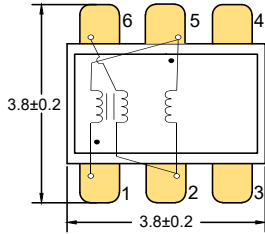
## EBG1118-B130127

2024-06-28 Rev. 0

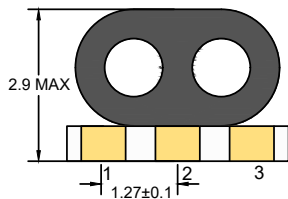


50Ω 1: 2 Transmission Line Transformer 10-8000 MHz

### Outline Drawing(mm)

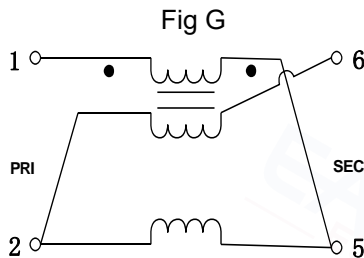


Top View

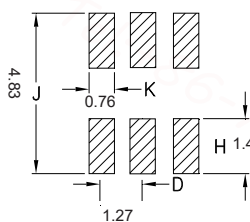


Side View

### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	1
Output 1	6
Output 2	5
Ground	2
Not used	3, 4

### Features

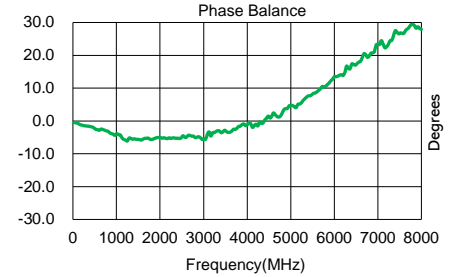
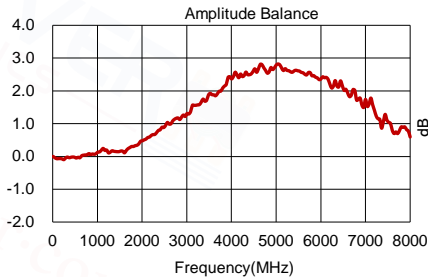
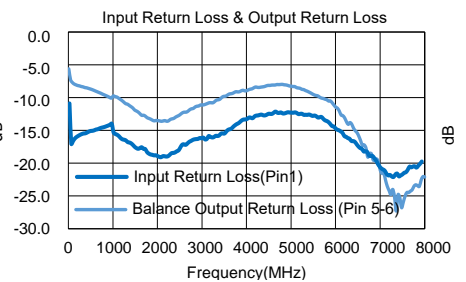
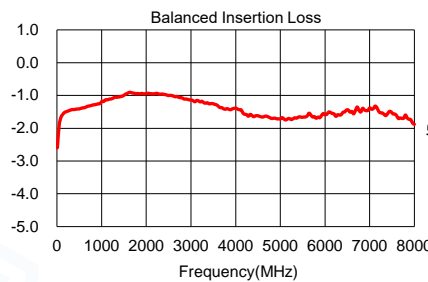
- RF Power, 1.0W Max
- DC current: 1A Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

### Applications

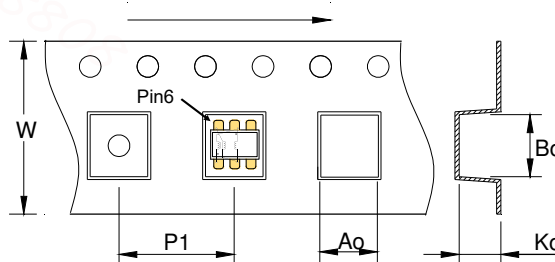
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Amplitude Balance	10-8000MHz	dB	0.0	1.5	3.0
Phase Balance	10-8000MHz	°	0.0	15.0	30.0
Input Return Loss(Pin1)	10-8000MHz	dB	12.0	16.0	—
Balance Insertion Loss	10-8000MHz	°	—	1.6	2.5
Balance Output Return Loss	10-8000MHz	dB	6.0	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	4.50
Ko	mm	3.20