

# RF Balun Transformer

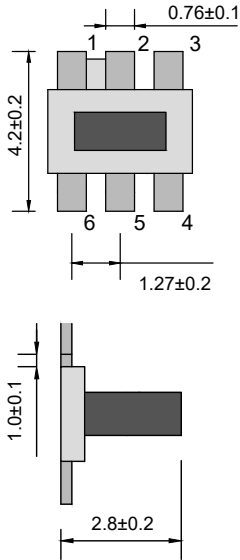
## EBG1-83-B012389

2022-10-09 Rev. 0

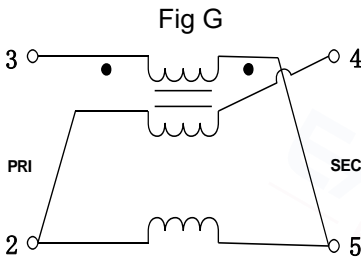


50Ω 1:1 Transmission Line Transformer 10-8000MHz

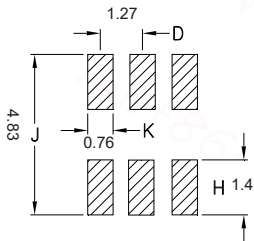
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

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

### Features

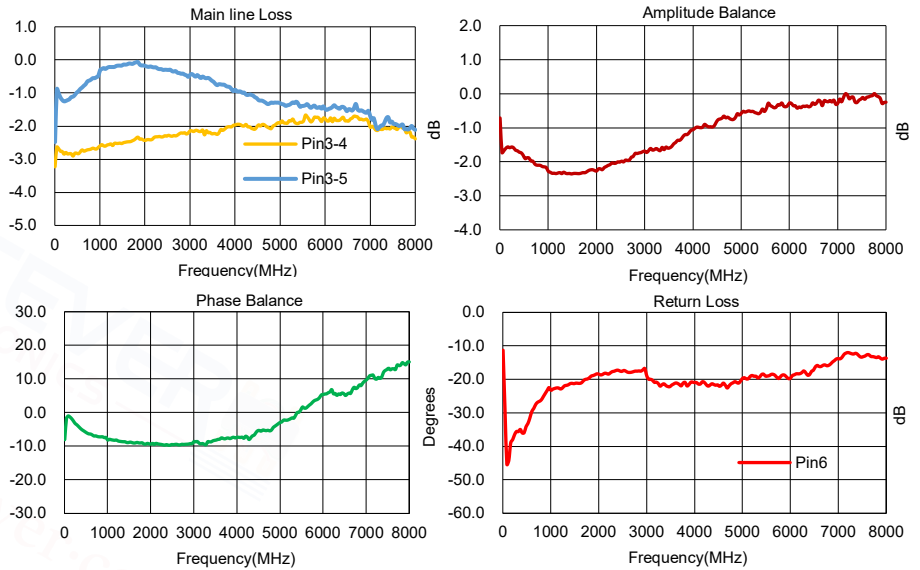
- DC Current: 30mA
- Input Power: 200mW
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 C to +85 C
- Storage temperature range: -55 C to +100 C

### Applications

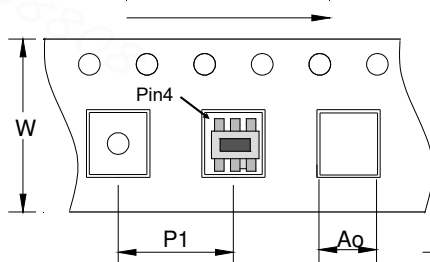
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin3-4)	10-8000MHz	dB	—	2.0	3.0
Main line Loss (Pin3-5)	10-8000MHz	dB	—	2.5	3.0
Amplitude Balance	10-8000MHz	dB	0.0	1.5	2.5
Phase Balance	10-8000MHz	°	0.0	10.0	30.0
Input Return Loss(Pin3)	10-8000MHz	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	4.30
Bo	mm	4.30
Ko	mm	3.00