

RF Balun Transformer

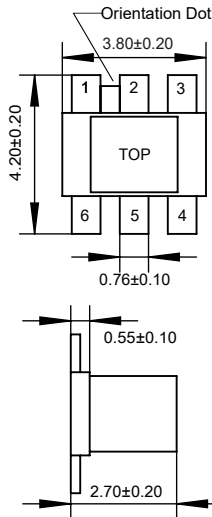
EBG1-43-B012331

2022-12-29 Rev. 1



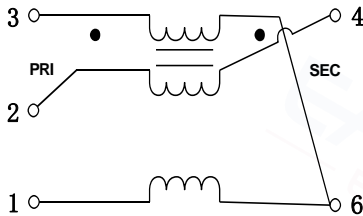
50Ω 1:1 Transmission Line Transformer 10-4000 MHz

Outline Drawing(mm)

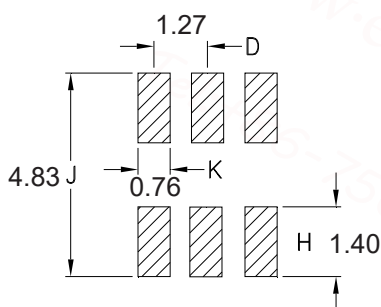


Electrical structure

Fig G



Recommended layout(mm)



Pin Connections

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

Features

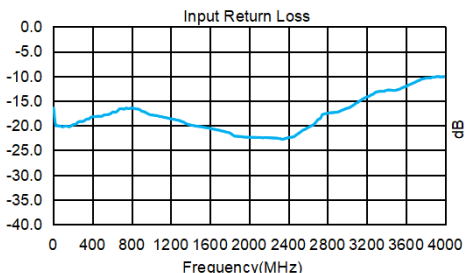
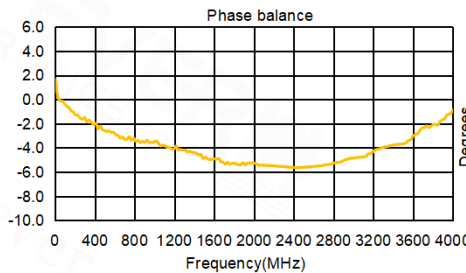
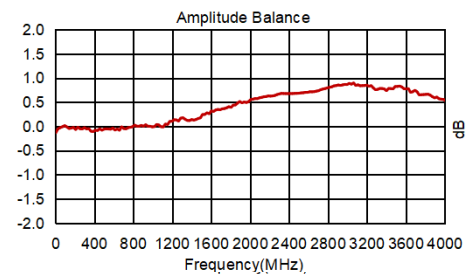
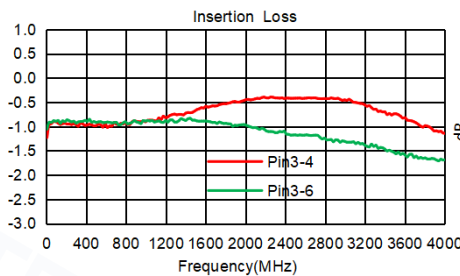
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 400mW Max
- DC Current: 30mA Max

Applications

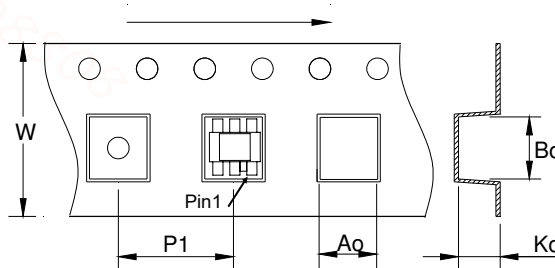
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin3-4)	10-4000MHz	dB	—	0.5	2.0
Main line Loss (Pin3-6)	10-4000MHz	dB	—	1.2	3.0
Amplitude Balance	10-4000MHz	dB	0.0	0.5	1.0
Phase Balance	10-4000MHz	°	0.0	5.0	10.0
Input Return Loss(Pin3)	10-4000MHz	dB	8.0	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	12.00
Ao	mm	4.50
Bo	mm	4.50
Ko	mm	3.20