

RF Balun Transformer

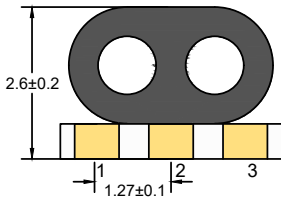
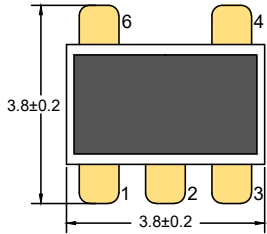
EBG1-33-B013187

2020-08-11 Rev. 0

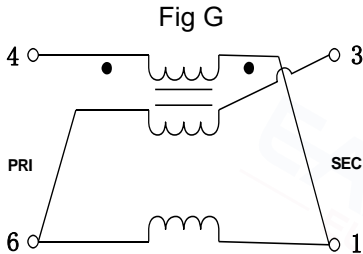


50Ω&75Ω 1:1 Transmission Line Transformer 5-3000 MHz

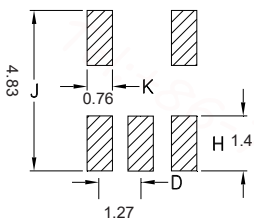
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	6

Features

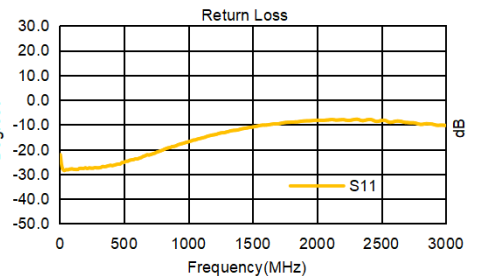
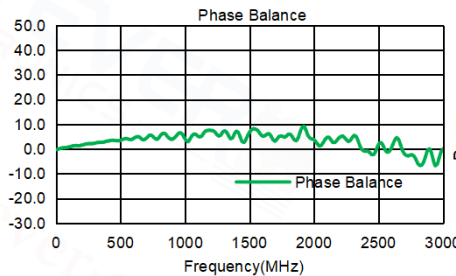
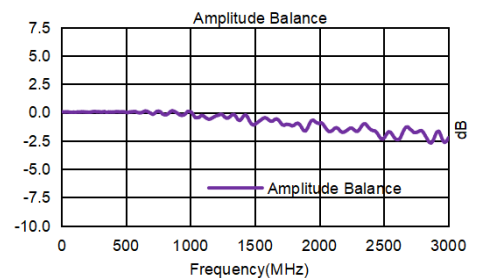
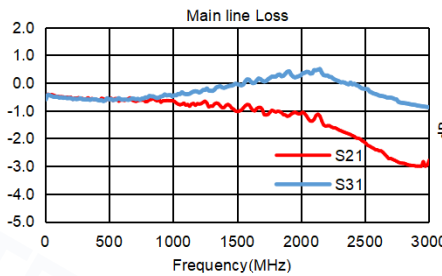
- DC Current: 30mA
- Input Power: 250mW
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

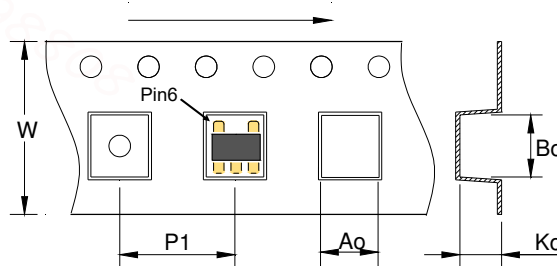
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	5-3000MHz	dB	—	1.5	4.0
Main line Loss (Pin4-1)	5-3000MHz	dB	—	1.0	2.2
Amplitude Balance	5-3000MHz	dB	—	1.5	3.5
Phase Balance	5-3000MHz	°	—	8.0	35.0
Input Return Loss(Pin4)	5-3000MHz	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	12.00
Ao	mm	4.50
Bo	mm	4.50
Ko	mm	3.20