

RF Balun Transformer

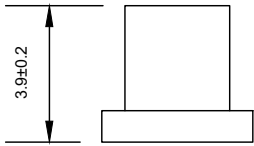
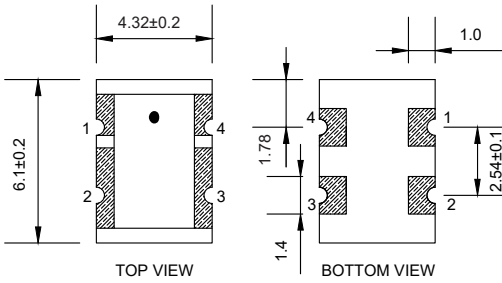
EBG1182-B137243

2024-08-27 Rev. 0

75Ω 1:1 Transmission Line Transformer 10-1800MHz

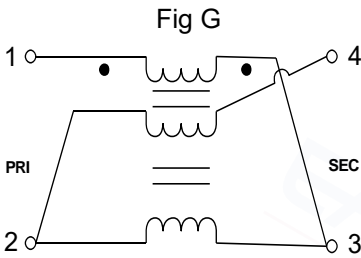


Outline Drawing(mm)

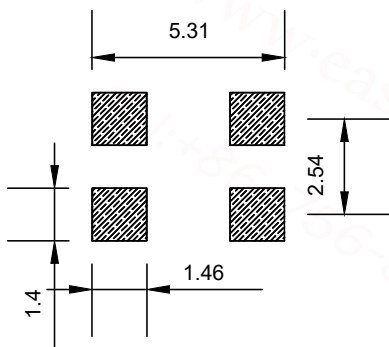


Side View

Electrical structure



Recommended layout(mm)



Pin Connections

Input	1
Output 1	4
Output 2	3
Ground	2

Features

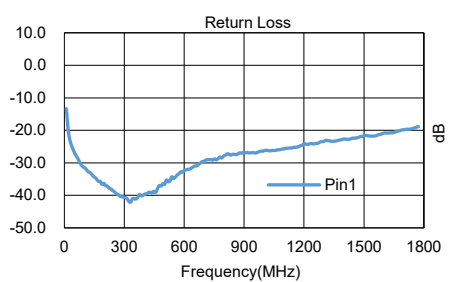
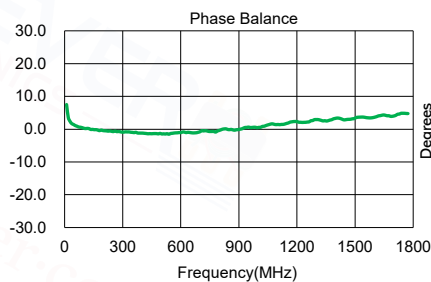
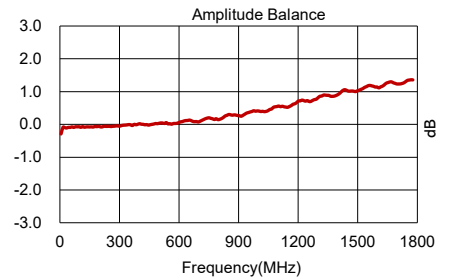
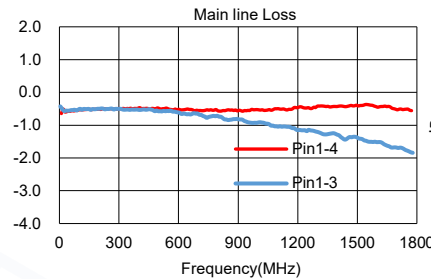
- RF Power, 1W Max
- DC current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

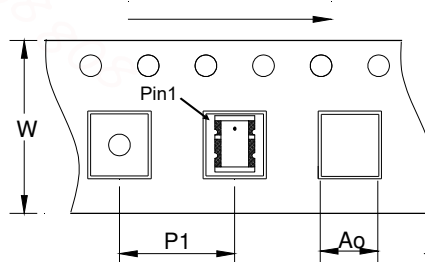
- For Docsis 3.0&4.0 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

Electrical Specifications:TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin1-4)	10-1800MHz	dB	—	1.5	2.0
Main line Loss (Pin1-3)	10-1800MHz	dB	—	0.6	1.0
Amplitude Balance	10-1800MHz	dB	—	1.2	1.5
Phase Balance	10-1800MHz	°	—	7.5	15.0
Input Return Loss(Pin1)	10-1800MHz	dB	12.5	18.0	—



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	5.20
Bo	mm	6.40
Ko	mm	4.20