

RF Balun Transformer

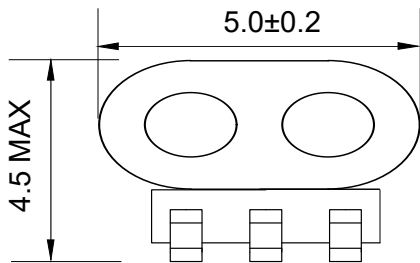
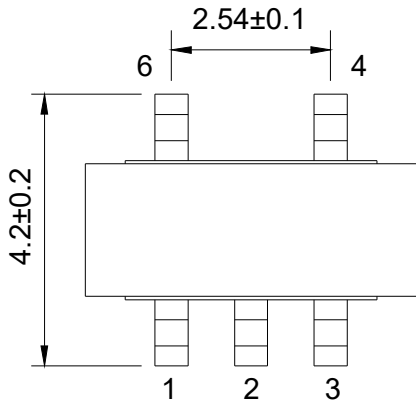
EBE3535-F004243

2024-11-05 Rev. 0



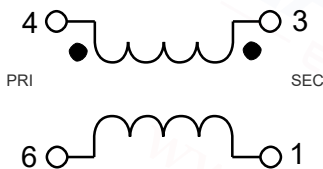
75Ω 1: 1 Transmission Line Transformer 50-1200 MHz

Outline Drawing(mm)

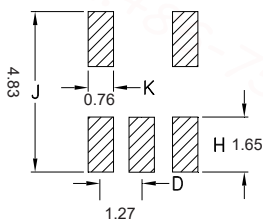


Electrical structure

Fig E



Recommended layout(mm)



Pin Connections

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

Features

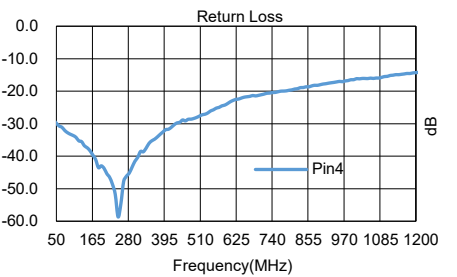
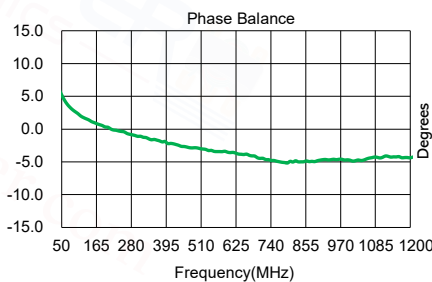
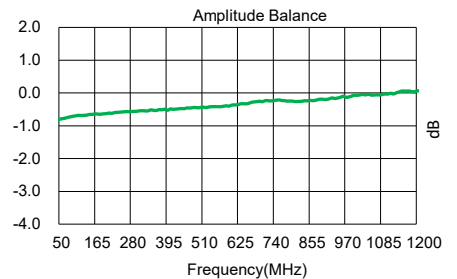
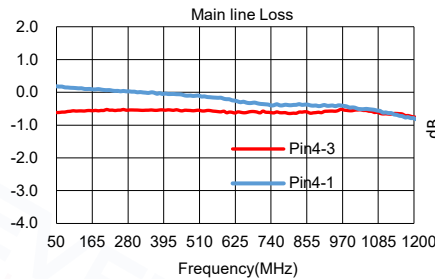
- RF Power, 0.25W Max
- DC current: 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Windngs

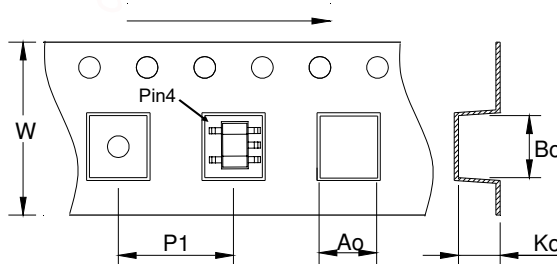
- For Docsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	50-1200MHz	dB	—	0.5	1.0
Main line Loss (Pin4-1)	50-1200MHz	dB	—	1.2	1.2
Amplitude Balance	50-1200MHz	dB	—	0.5	0.8
Phase Balance	50-1200MHz	°	—	5.0	10.0
Input Return Loss(Pin4)	50-1200MHz	dB	10.0	14.0	—



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	6.30
Ko	mm	4.50