

RF Balun Transformer

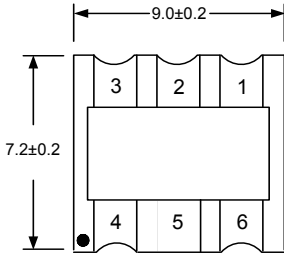
EBE1-12-F024253

2019-12-19 Rev. 0

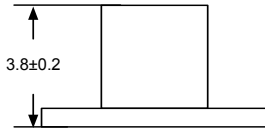


50Ω 1:1 Transmission Line Transformer 5-1250 MHz

Outline Drawing(mm)

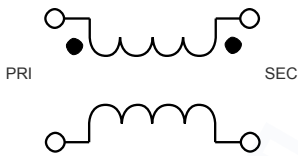


Top View

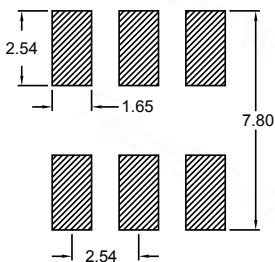


Electrical structure

Fig E



Recommended layout(mm)



Pin Connections

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

Features

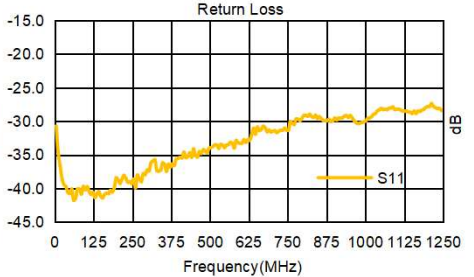
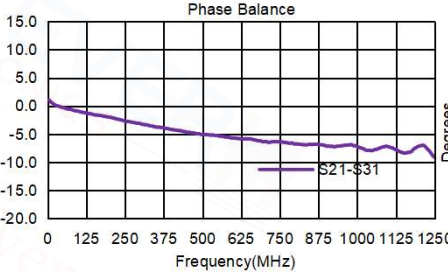
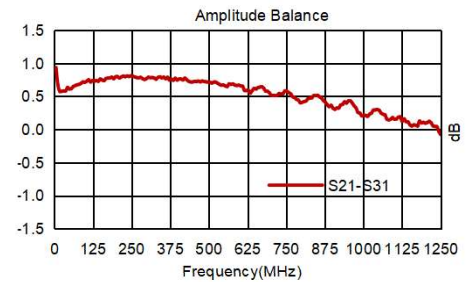
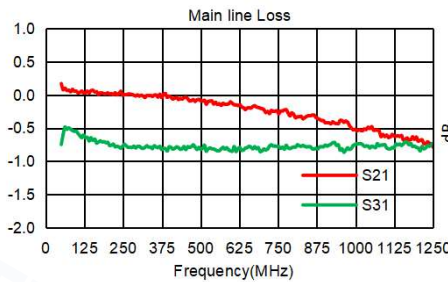
- DC Current: 100mA Max
- Input Power: 2.0W Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range:-40 C to +85 C
- Storage temperature range: -55 C to +100 C

Applications

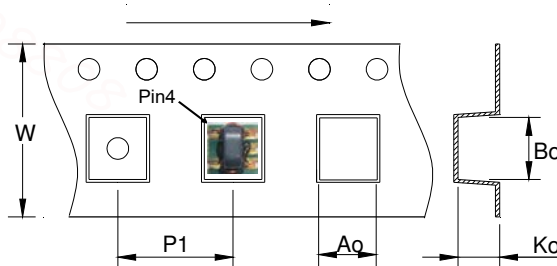
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	5-1250MHz	dB	—	0.7	2.0
Main line Loss (Pin4-1)	5-1250MHz	dB	—	0.8	2.0
Amplitude Balance	5-1250MHz	dB	0.0	0.5	1.5
Phase Balance	5-1250MHz	°	0.0	8.0	20.0
Input Return Loss(Pin4)	5-1250MHz	dB	12.0	25.0	—



Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	PCS	1000
Reel Size	mm	330
Tape Width	mm	24.00
Pitch	mm	12.00
Ao	mm	9.20
Bo	mm	8.10
Ko	mm	6.10