

RF Balun Transformer

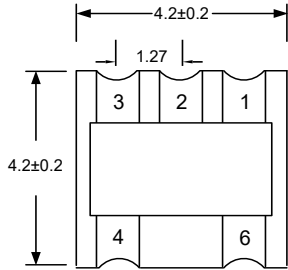
EBI0040-D018081

2022-04-18 Rev.1

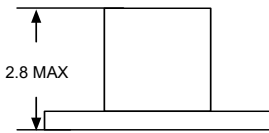


50Ω 1: 1 Transmission Line Transformer 5-1500 MHz

Outline Drawing(mm)

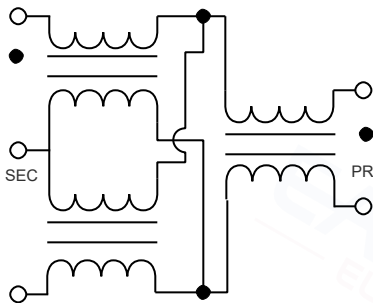


Top View

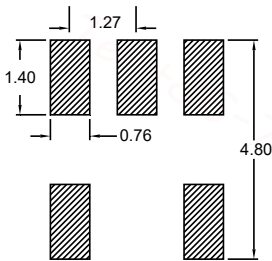


Electrical structure

Fig 1



Recommended layout(mm)



Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	2,6

Features

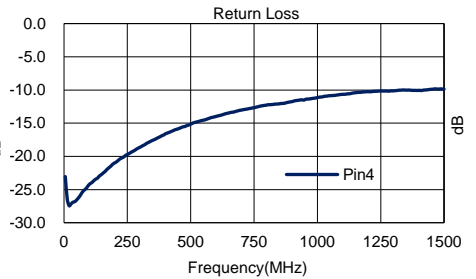
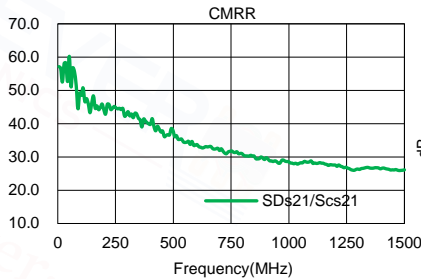
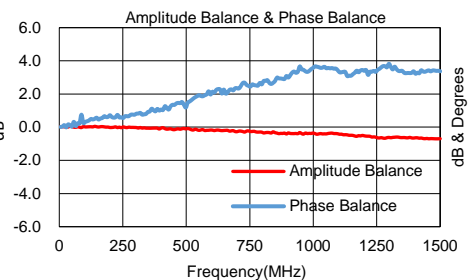
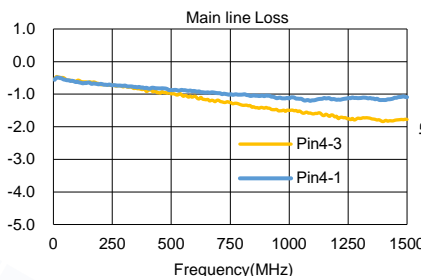
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW Max
- DC Current: 500mA Max

Applications

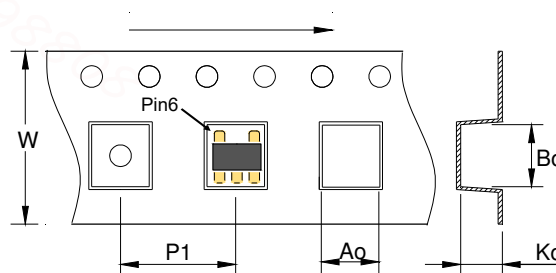
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	5-1500MHz	dB	—	1.8	2.5
Main line Loss (Pin4-1)	5-1500MHz	dB	—	1.0	1.6
Amplitude Balance	5-1500MHz	dB	0.0	0.5	1.8
Phase Balance	5-1500MHz	°	0.0	3.5	10.0
Input Return Loss(pin4)	5-1500MHz	dB	7.0	12.0	—
CMRR	5-1500MHz	dB	20.0	28.0	—



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	4.50
Ko	mm	3.20

RF Balun Transformer

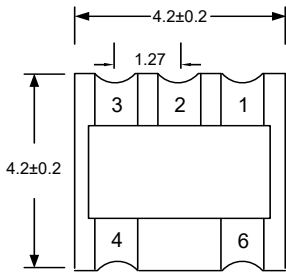
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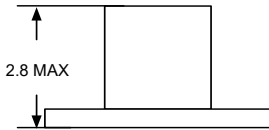


75Ω 1: 1 Transmission Line Transformer 5-1250 MHz

Outline Drawing(mm)

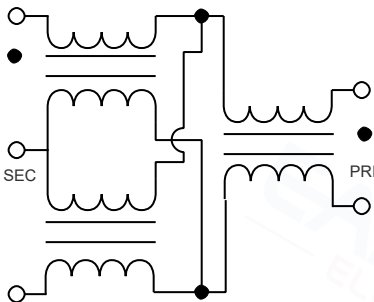


Top View

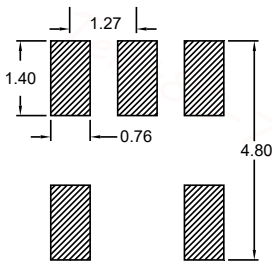


Electrical structure

Fig 1



Recommended layout(mm)



Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	2,6

Features

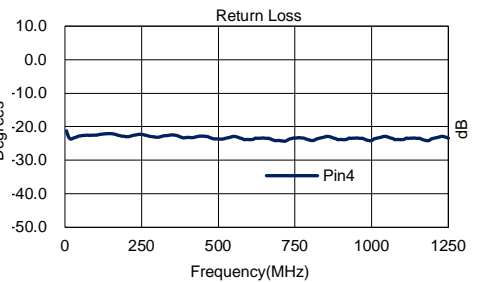
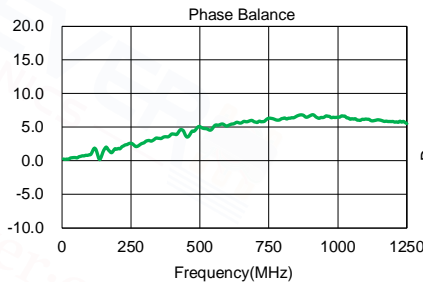
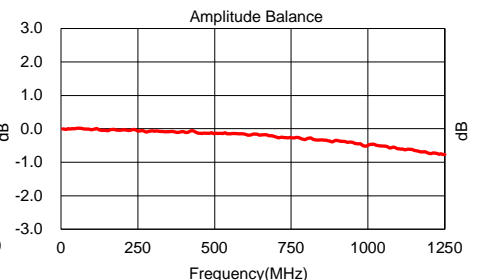
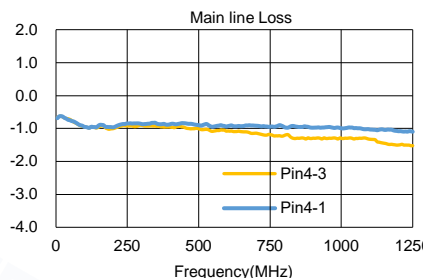
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 500mW Max
- DC Current: 500mA Max

Applications

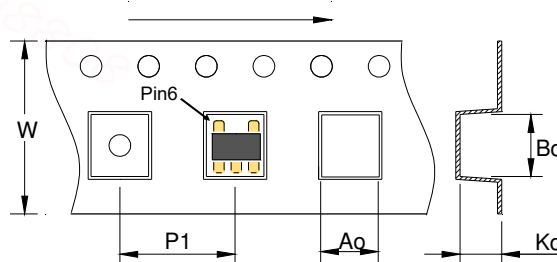
- For Docsis 3.0 & 3.1 Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	5-1250MHz	dB	—	1.4	1.8
Main line Loss (Pin4-1)	5-1250MHz	dB	—	1.0	1.6
Amplitude Balance	5-1250MHz	dB	0.0	0.5	1.0
Phase Balance	5-1250MHz	°	0.0	6.0	12.0
Input Return Loss(pin4)	5-1250MHz	dB	16.0	22.0	—



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	4.50
Ko	mm	3.20