

RF Balun Transformer

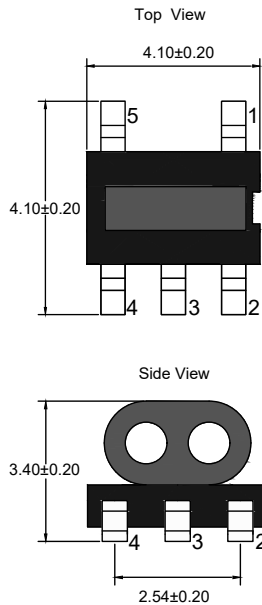
EBG1112-A004779

2022-09-30 Rev. 0

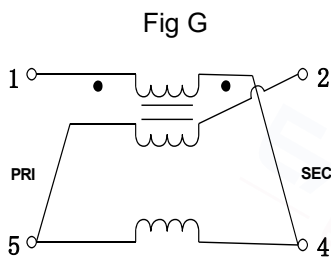


75Ω 1:1 Transmission Line Transformer 5-1800 MHz

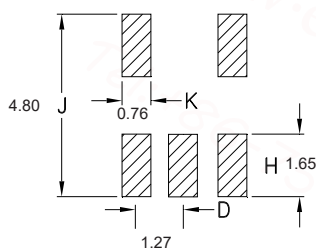
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Pin	Name
1	Primary Dot
2	Secondary
3	NC
4	Secondary Dot
5	Primary

Features

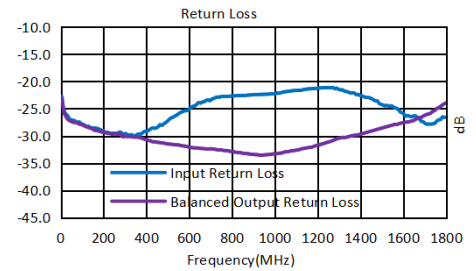
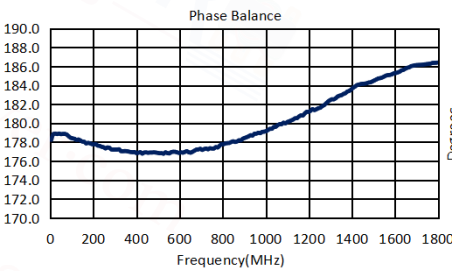
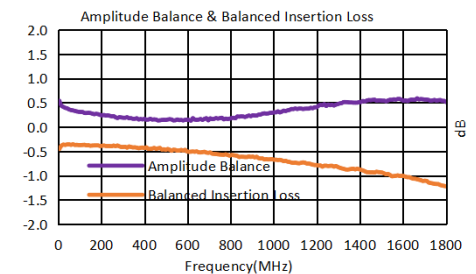
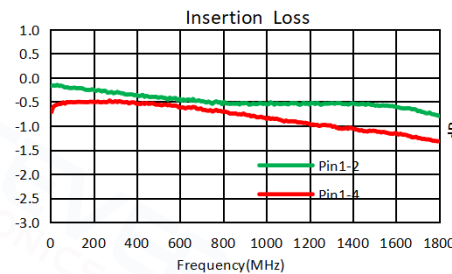
- RF Power,0.5W
- DC Current,600 mA
- Operating temperature range: -40℃ to +85℃
- Storage temperature range: -55℃ to +100℃

Applications

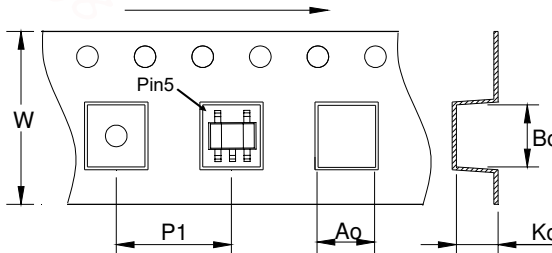
For Docsis 3.0 & 3.1 Cable Modem.
 For Wideband Push-pull Amplifiers.
 For CATV Amplifiers Module & Set top box.
 For CATV Optical Receivers and Amplifiers.
 For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Frequency (MHz)	Units	Min.	Typ.	Max.
Impedance Ratio	—	Ratio	—	1:1	—
Insertion Loss 1 (pin 1 to pin 2)	5 - 500	dB	—	0.3	0.6
	500 - 1218			0.6	1.0
	1218 - 1800			0.8	1.3
Insertion Loss 2 (pin 1 to pin 4)	5 - 500	dB	—	0.6	0.9
	500 - 1218			0.8	1.3
	1218 - 1800			1.3	1.8
Balanced Insertion Loss	5 - 500	dB	—	0.4	0.7
	500 - 1218			0.7	1.0
	1218 - 1800			1.0	1.5
Amplitude Balance	5 - 500	dB	—	0.3	±0.6
	500 - 1218			0.3	±0.6
	1218 - 1800			0.6	±1.0
Phase Balance	5 - 500	°	—	3.0	2.0
	500 - 1218			-6.0	2.0
	1218 - 1800			-8.0	8.0
Input Return Loss (pin 1)	5 - 1218	dB	18	22	—
	1218 - 1800			25	—
Balance Output Return Loss	5 - 1218	dB	18	28	—
	1218 - 1800			25	—



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	3.50