

# RF Balun Transformer

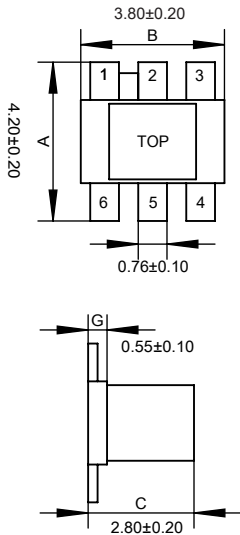
## EBG1160-D012023

2021-02-01 Rev. 0

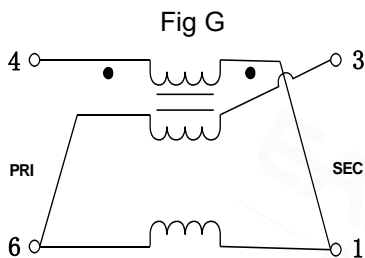


75Ω 1:1 Transmission Line Transformer 5-1250MHz

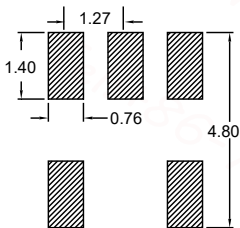
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

Input	6
Output 1	1
Output 2	3
Ground	4

### Features

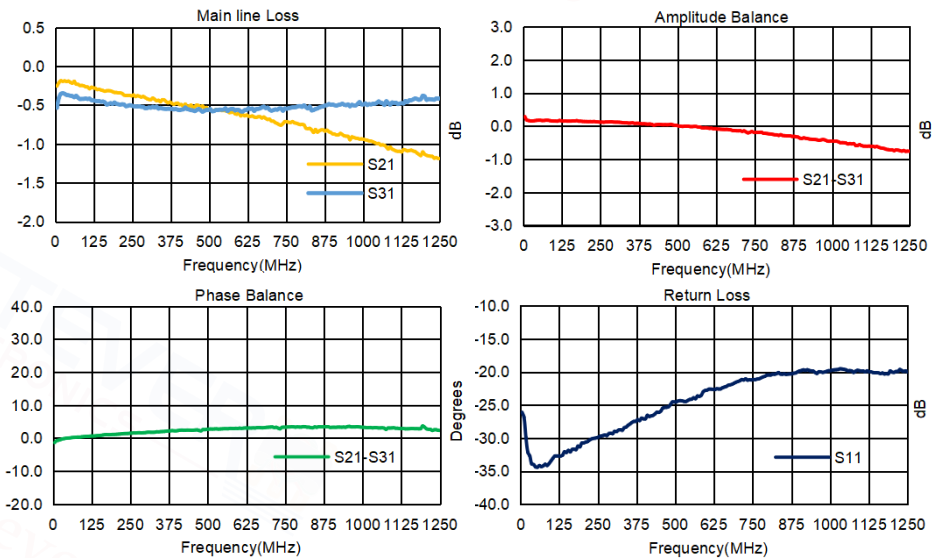
- RF Power: 0.50W Max
- DC Current: 500mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 C to+85 C
- Storage temperature range: -55 C to +100 C

### Applications

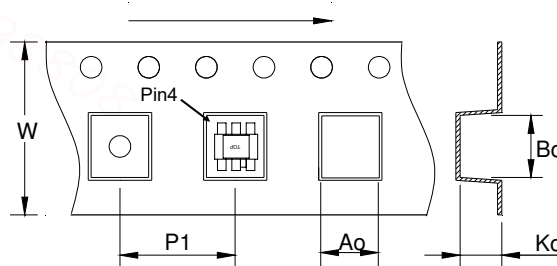
For Docsis 3.0 & 3.1 Cable Modem.  
 For Wideband Push-pull Amplifiers.  
 For CATV Amplifiers Module & Set top box.  
 For CATV Optical Receivers and Amplifiers.  
 For VHF/UHF Transmitters and Push-pull Amplifiers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin6-1)	5-1250MHz	dB	—	1.2	1.8
Main line Loss (Pin6-3)	5-1250MHz	dB	—	0.5	1.0
Amplitude Balance	5-1250MHz	dB	—	1.0	1.5
Phase Balance	5-1250MHz	°	—	5.0	10.0
Input Return Loss(Pin6)	5-1250MHz	dB	16.0	20.0	—



### 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