

RF Balun Transformer

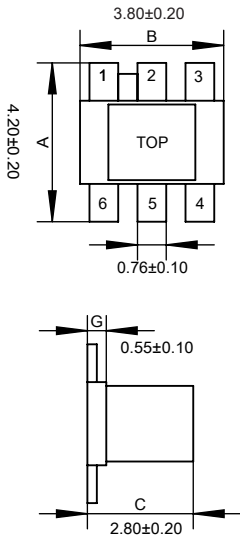
EBBM1-1-G012081

2020-09-03 Rev. 0

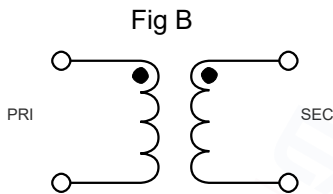


50Ω 1:1 Flux Coupled Transformer 1.5-500 MHz

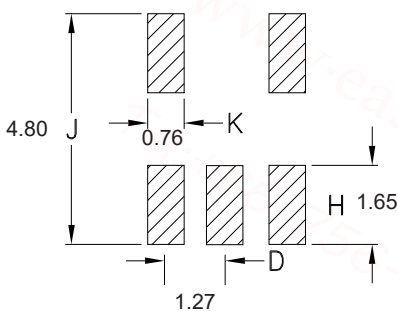
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

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

Features

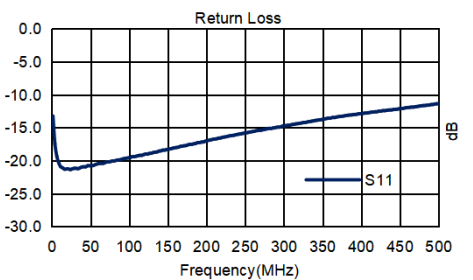
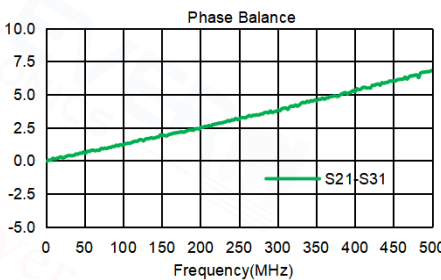
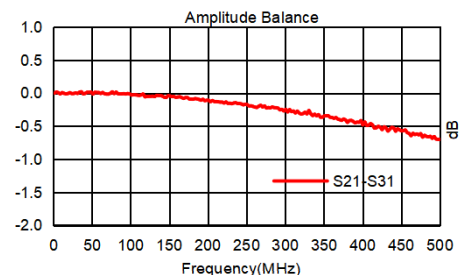
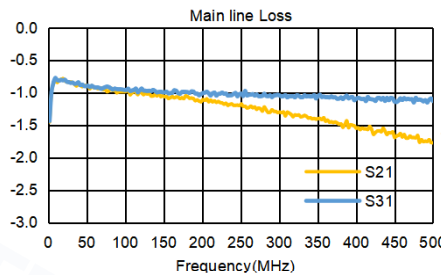
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Input Power: 250 mW Max
- DC Current: 30mA Max

Applications

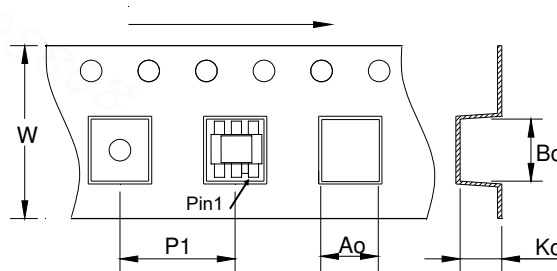
- 5G NR
- 4G LTE
- 3G
- 2G
- Wi-Fi
- Bluetooth
- ZigBee
- NFC
- RFID
- GPS
- GNSS
- L-Band
- S-Band
- X-Band
- Ku-Band
- Ka-Band
- Q-Band
- V-Band
- E-Band

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin6-1)	1.5-500MHz	dB	—	1.5	2.5
Main line Loss (Pin6-3)	1.5-500MHz	dB	—	1.2	2.0
Amplitude Balance	1.5-500MHz	dB	0.0	0.8	1.5
Phase Balance	1.5-500MHz	°	0.0	5.0	15.0
Input Return Loss(Pin6)	1.5-500MHz	dB	8.0	12.0	—



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	12.00
Ao	mm	4.50
Bo	mm	4.50
Ko	mm	3.20