

RF Balun Transformer

EBA0335-G013087

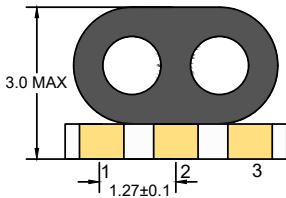
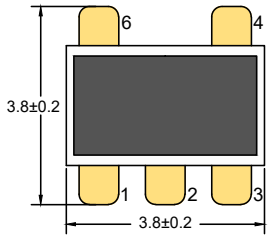
2022-08-29 Rev. 0



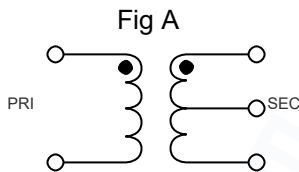
50Ω 1:5 Transmission Line Transformer

0.3-750 MHz

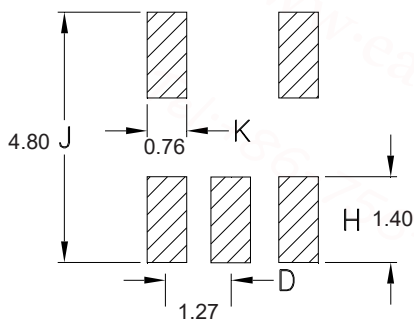
Outline Drawing(mm)



Electrical structure



Recommended layout(mm)



Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	6

Features

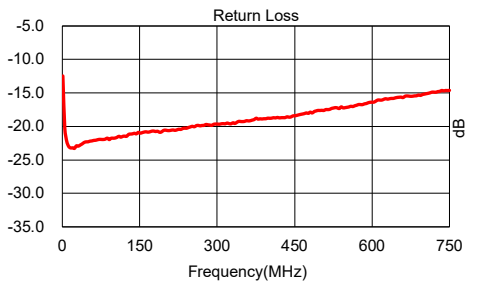
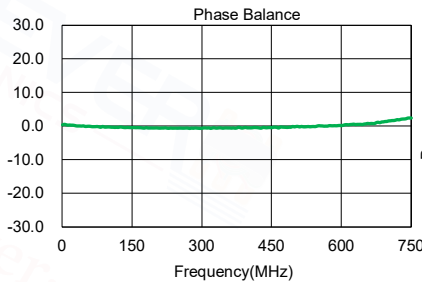
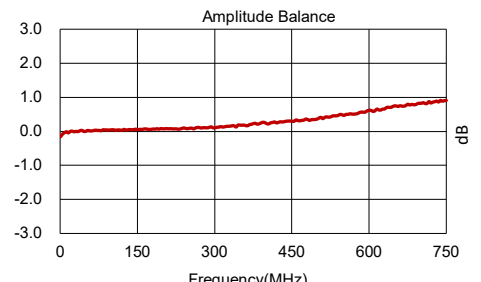
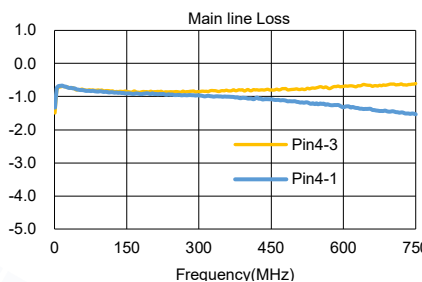
- RF Power, 0.25W Max
- DC Current, 30 mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

Applications

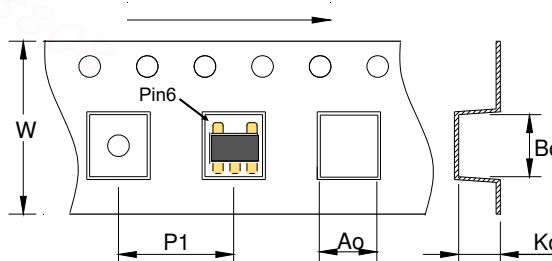
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	0.3-750MHz	dB	—	0.8	1.1
Main line Loss (Pin4-1)	0.3-750MHz	dB	—	1.5	2.0
Amplitude Balance	0.3-750MHz	dB	—	1.0	1.5
Phase Balance	0.3-750MHz	°	—	3.0	15.0
Input Return Loss(Pin4)	0.3-750MHz	dB	12.0	16.0	—



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