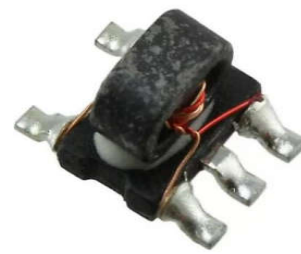


# RF Balun Transformer

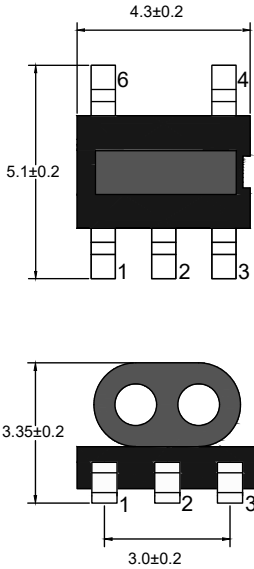
## YB4F-617DB-0059-F204

2021-02-05 Rev. 0

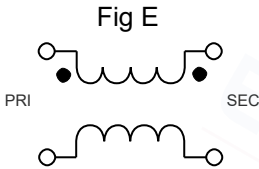


50Ω 1:1 Transmission Line Transformer 1-2500MHz

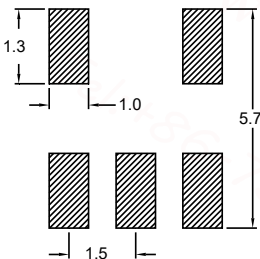
### Outline Drawing(mm)



### Electrical structure



### Recommended layout(mm)



### Pin Connections

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

### Features

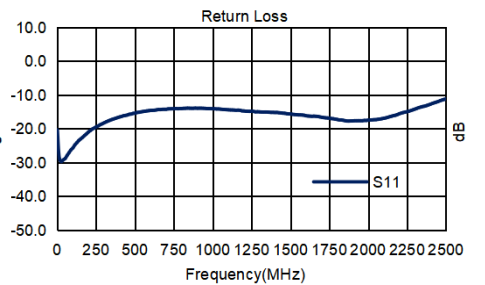
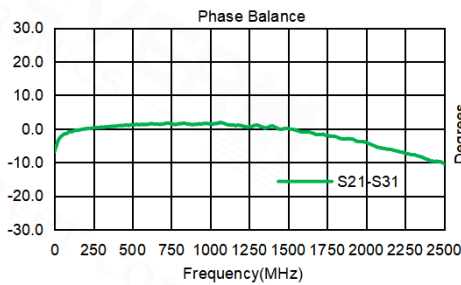
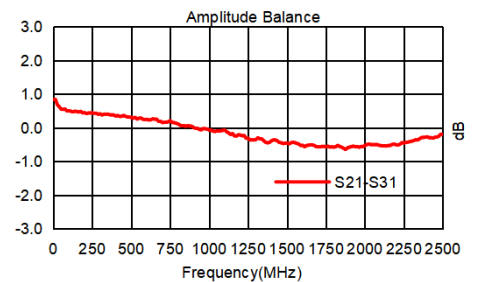
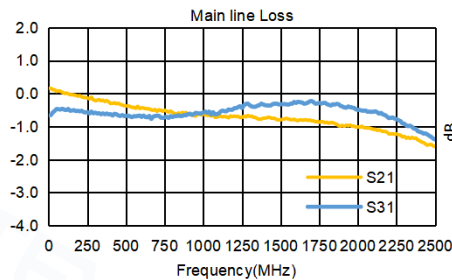
- RF Power, 2.0W
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40°C to +85°C
- Storage temperature range: -55°C to +100°C

### Applications

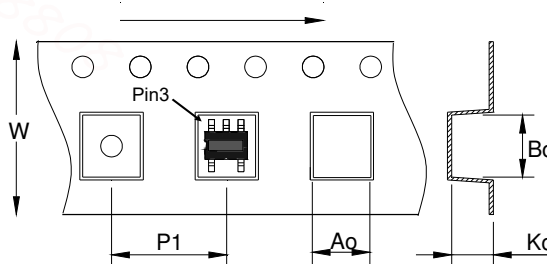
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	1-2500MHz	dB	—	1.0	2.5
Main line Loss (Pin4-1)	1-2500MHz	dB	—	1.0	2.5
Amplitude Balance	1-2500MHz	dB	0.0	0.8	1.5
Phase Balance	1-2500MHz	°	0.0	8.0	20.0
Input Return Loss(Pin4)	1-2500MHz	dB	9.0	15.0	—



### 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	5.70
Ko	mm	3.60