

# RF Balun Transformer

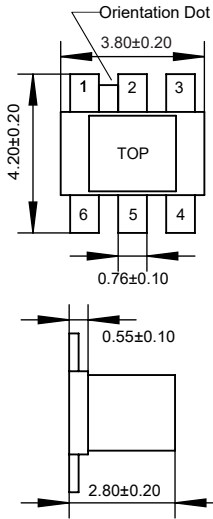
## B012-617DB-1-43-F012

2020-04-25 Rev. 0



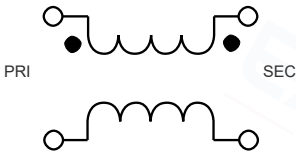
50Ω 1:1 Transmission Line Transformer 650-4000 MHz

### Outline Drawing(mm)

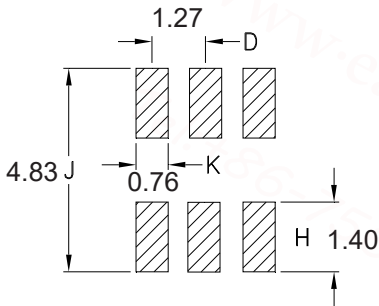


### Electrical structure

Fig E



### Recommended layout(mm)



### Pin Connections

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

### Features

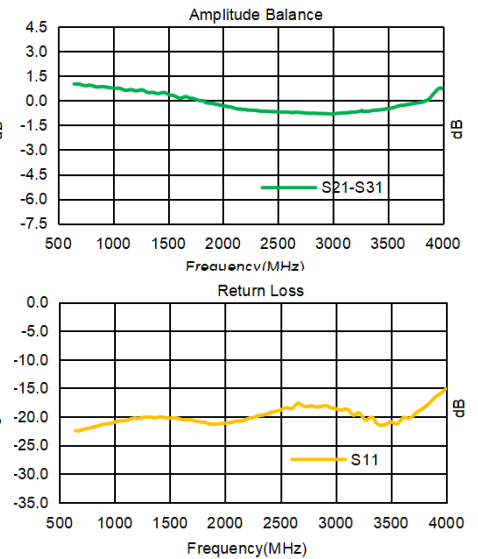
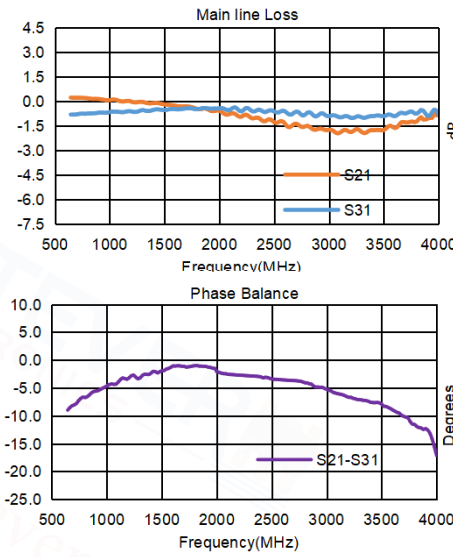
- DC Current: 30mA Max
- Input Power:0.4W Max
- 260℃ reflow compatible
- RoHS Compliant and Pb free
- Operating temperature range:-40℃ to +85℃
- Storage temperature range: -55℃ to +100℃

### Applications

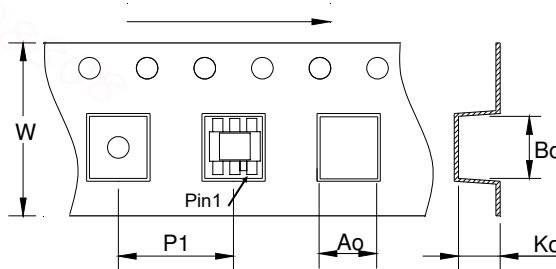
- For Motorola Walkie-talkie.
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin6-1)	650-4000MHz	dB	—	1.5	3.0
Main line Loss (Pin6-3)	650-4000MHz	dB	—	1.5	3.0
Amplitude Balance	650-4000MHz	dB	0.0	1.5	2.0
Phase Balance	650-4000MHz	°	0.0	15.0	25.0
Input Return Loss(Pin6)	650-4000MHz	dB	12.0	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	12.00
Ao	mm	4.50
Bo	mm	4.50
Ko	mm	3.20