

RF Balun Transformer

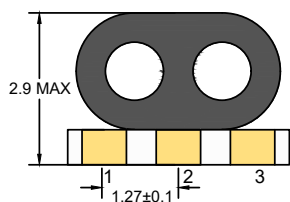
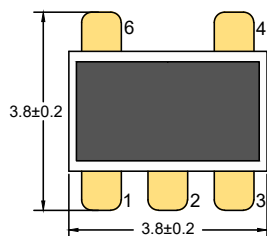
YB2F-617DB-1-13M+E081

2022-12-22 Rev. 2

50Ω 1:1 Transmission Line Transformer 3-3000 MHz

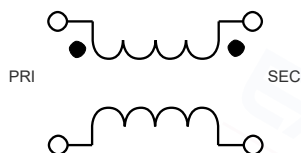


Outline Drawing(mm)

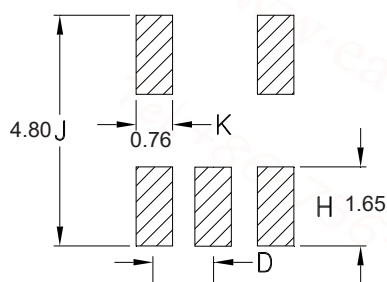


Electrical structure

Fig E



Recommended layout(mm)



Pin Connections

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

Features

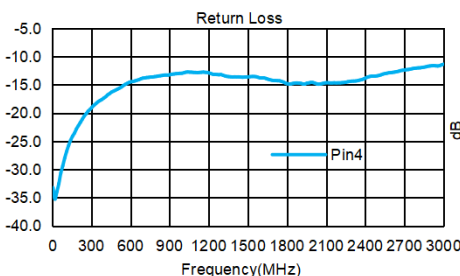
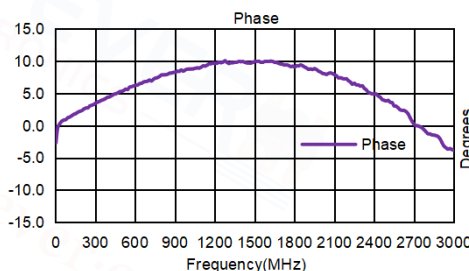
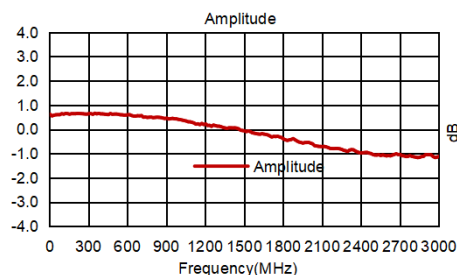
- DC Current: 30mA Max
- Input Power: 500mW Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +100 °C

Applications

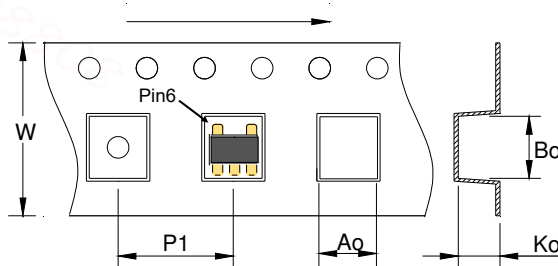
- For Car Streaming Media Rearview Mirror.
- For Broadband and Wireless Communications.
- For Wireless Microphone & Marine Communications.
- For Ideally Suited LTE, Cellular, UMTS, WiFi, WiMAX.
- For Differential Modulator/demodulator and Active Mixers.

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

Parameter	Test Conditions	Units	Min	Typ	Max
Insertion Loss (Pin4-3)	3-3000MHz	dB	—	1.5	4.0
Insertion Loss (Pin4-1)	3-3000MHz	dB	—	1.0	3.0
Amplitude Balance	3-3000MHz	dB	0.0	1.0	2.0
Phase Balance	3-3000MHz	°	0.0	10.0	15.0
Input Return Loss(Pin4)	3-3000MHz	dB	8.0	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	4.50
Ko	mm	3.20

